



AIP NEWS

MAY 2018



SUSTAINABLE GOALS



FIGHT FOOD WASTE
Cooperative Research Centre
REDUCE - TRANSFORM - ENGAGE

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AUSTRALIAN INSTITUTE
OF PACKAGING
55 YEARS: 1963-2018

AIP 2018 NATIONAL CONFERENCE WRAP UP



Packaging Globalisation – the theme for this years AIP National Conference and drawing from 60 speakers that represented 20 different countries we were truly able to explore many different ways in which packaging is evolving all around the world.

What struck me particularly was a topic we were introduced to right at the outset – food waste. To hear Brianna Casey, CEO Foodbank Australia talk about the number of families affected by hunger, whilst as a society we are throwing away close to one third of all the food we produce, really became a theme that I was to come back to many times over the course of the two days.

Within this gathering of packaging experts from around the globe, we had some of the best minds and creators of packaging innovations that have specifically been targeted at saving food. So why is it then that lately we hear of so many consumers complaining about 'excessive packaging' particularly with much reporting in the news regarding the strain on package recycling now that China has closed the doors to most of the waste we place in our recycling bins?

It occurred to me that we are second to none in educating our industry but without sharing our innovations amongst the wider community, consumers often see packaging as 'the enemy' - uninformed about the importance of its fundamental role in protecting the products they buy.

It was enlightening to hear of the successful Fight Food Waste Cooperative Research Centre bid from Assoc. Prof. Karli Verghese FAIP, in which the Australian Institute of Packaging are a core contributor.

The Fight Food Waste CRC aims to tackle food waste, looking at the entire supply chain, through engaging with industry and consumers to deliver behaviour change, so we do have a great opportunity now to drive positive change and the suggestion to identify some packaging industry 'champions' to help in this quest is certainly an idea worth exploring.

After all – how could a supermarket even exist without packaging, to say nothing of online food deliveries! After hearing from speakers with a passion for their aspect of packaging - everything from its role in the success of their new product, to sourcing sustainable raw materials and steps to reuse packaging or bring packaging waste into the circular economy, there are so many ways in which we as an industry are collaborating. I have certainly come away from our 2018 conference with a very positive outlook for the next few years.

Dr Carol Kilcullen-Lawrence PhD, FAIP
National President
Australian Institute of Packaging (AIP)



DON'T MISS OUT ON THE LATEST AIP ACTIVITIES FOR 2018



AUSTRALIAN INSTITUTE
OF PACKAGING
55 YEARS: 1963-2018

ALL MEMBERS ARE INVITED TO ATTEND ANY EVENTS ACROSS AUSTRALIA & NEW ZEALAND

To register to attend any of the events simply email info@aipack.com.au or visit the events page on www.aipack.com.au

THE ROLE OF PACKAGING IN MINIMISING FOOD WASTE HALF-DAY TRAINING COURSE

NEW COURSE



WHAT: As a part of the Australian Institute of Packaging's commitment to the National Food Waste Strategy and as a core participant in the Fight Food Waste Cooperative Research Centre the Institute has developed a new half-day training course on The Role of Packaging in Minimising Food Waste.

OVERVIEW OF THE COURSE:

Over one third of the food grown for human consumption is lost or wasted between farm and fork. In Australia it is estimated to be valued at \$20 billion per year, with half of this occurring in households. There are many reasons why this loss is occurring. There are also many opportunities to be more efficient with resources. This course will provide participants with an introduction to the seriousness of food waste in this country and globally and how we can all make a difference as team members of the product-packaging design process to this issue. It will cover packaging design criteria for Best-Practice Save Food Packaging Design developments that should be considered. With hands-on and practical case studies participants will learn how designing packaging to save food actually saves food.

COURSE PRESENTER:

Associate Professor Karli Verghese FAIP is a Principal Research Fellow in the Industrial Design program of the School of Design, RMIT University, Melbourne. Her research projects have included the development of decision support tools for packaging, resource efficiency, food waste, eco-design and one currently being developed for Australia's Antarctic research station (Casey). Research themes include the role of packaging, packaging sustainability, food loss/waste across supply chains, resource efficiency, waste management, and life cycle assessment. She is also the Reducing Supply Chain Losses Research Program Leader of the Fight Food Waste CRC.



BANGKOK, THAILAND

WHEN: Wednesday 14 June

WHERE: Bitec, Bang Na, Bangkok, Thailand

NEW SOUTH WALES

WHEN: Wednesday 25 July

WHERE: Mercure Sydney Parramatta, NSW

AUCKLAND, NEW ZEALAND

WHEN: Wednesday 19 September

WHERE: Board Room (Level 2), ASB Showgrounds, Epsom, Auckland



**COME AND VISIT THE AIP ON STAND CJ29 OUTSIDE HALL 5
AS A PART OF THE SAVE FOOD & SUSTAINABLE PACKAGING PAVILION**

The 26th International Processing and Packaging Technology Event for Asia

PROPAK ASIA

13-16 June 2018

BITEC, Bangkok, Thailand

10.00-18.00 Hrs.

Incorporating:

- ProcessingTechAsia
- PackagingTechAsia
- DrinkTechAsia
- PharmaTechAsia
- Lab&TestAsia
- MaterialsAsia
- Coding, Marking & LabellingAsia
- Coldchain, Logistics & WarehousingAsia

In-conjunction with:



Pre-register today at: www.propakasia.com





ASSOCIATE PACKAGING TECHNOLOGIST

- **Are you our next Packaging expert?**
- **Smart, innovative, future focused**
- **North Strathfield location, close to the train station with onsite parking available**

A LITTLE ABOUT THE ROLE

As our next talented Packaging Technologist, you will own the packaging specifications across new and existing products. You will manage the technical feasibility and commercialisation of new specifications for our Arnott's brand.

Approvals of new packaging formats and changes, coordinating packaging trials, identify and implement engineering opportunities and maintaining our packaging systems (specifications, artwork etc) are just a few of the day to day areas you will lead.

Building and leveraging stakeholder relationships with Marketing, Supply Chain, R&D, Procurement, as well as with our external suppliers such as Packaging Vendors will call on your inclusive personality.

A LITTLE ABOUT THE COMPANY

Campbell Arnott's is part of the Campbell Soup Company and our iconic brands such as Tim Tams, Shapes and V8 are loved and enjoyed by many. Not only do we have amazing brands, we have a culture that is double choc coated in passionate loyalty, inclusivity and purpose. The icing on the biscuit is that we pride ourselves on our work/life balance, our dedication to growing our employees and our people who make our business the best place to be, which is why we were ranked as one of Australia's Best Places to work in 2017.

THE INGREDIENTS YOU NEED TO BE EXTRAORDINARY IN THIS ROLE

We are looking for someone with a can-do attitude and curiosity that drives your eagerness to continually learn and develop. You will ideally have a degree in a scientific discipline or experience in a similar role. Experience in the FMCG industry, or a Packaging manufacturer environment in a development, technical, quality or engineering role is advantageous.

So, if you want to take on a Packaging Technologist role in a fast-paced, extraordinary business, click on the 'apply' button below to submit your details to us!

[CLICK HERE TO APPLY](#)

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It was only apt that I attended my first World Packaging Board Meeting as the newly-elected ANZ representative in Queensland. The Board Meeting was extra special as it was Pierre Pienaar's first as the newly-elected President of the WPO and also the 100th Board Meeting for the organisation. I had the opportunity to meet the heads of packaging associations from many countries including Korea, Lebanon, Finland, Sweden, US, UK, Singapore, Indonesia, Japan, Argentina, Brazil, South Africa, India, Sri Lanka, Turkey and many more.

It was wonderful to be able to learn more about the WPO and the other countries programs and initiatives. I soon realised that there are many amazing like-minded associations across the globe who are all keen to learn and network. The AIP is committed to ensuring that we contribute to all initiatives of the WPO and to work together to create a global packaging community without barriers or borders.

Nerida Kelton MAIP, Executive Director, Australian Institute of Packaging (AIP)





AUSTRALIAN INSTITUTE
OF PACKAGING
55 YEARS: 1963-2018

2018 AIP ANNUAL GENERAL MEETING

Held alongside the 2018 AIP National Conference



AIP HAS A NEW CONSTITUTION

The AIP has a new Constitution which was unanimously approved by members at the recent AGM. This is the first time in 30 years that changes in the Constitution have been approved.

Why make the changes you ask? The AIP Constitution is a cornerstone of our (any) organisation, but no one reads it and to make matters worse, it is not that readable. It is unnecessarily complex and difficult to update and besides the Laws of NSW have changed, our Constitution has not. The Constitution was reviewed by members Ian Fletcher, Richard Mason, Allan Kenny and many others in 2010 (thank you) but the laws of NSW had changed making further changes necessary before submitting it to members.

AIP engaged Mills Oakley to prepare a Constitution that addressed the issues.

New Modern AIP Constitution includes:

- Updated Association objective – To influence regional and global packaging communities.
- Allowed members to proxy vote.
- Added Certified Packaging Professional as a membership grade.
- Aligned the 2-year cycle of regional committees with the National Board.

What is missing?

- By-laws.
- Roles and Responsibilities.
- Policies and Procedures.

These will be drafted and submitted to the National board for ratification but they will be outside the Constitution.

The New Constitution has the following outcomes:

- Meets current best practice in corporate governance.
- Retains AIP internal governance.
- Complies with the laws of NSW.
- Easy to read with simplified structure.
- Protects AIP assets.

Special resolution notice was circulated to all AIP Members on 3rd April 2018 detailing the proposal and its background. Members were provided with a link to the new document as well as a proxy form should they not be able to attend in person.

A motion was put to the AGM to accept the new Constitution as presented to the members. All Members present were provided with a printed voting form on which to record their vote. These votes were collected and counted independently along with the 32 proxy votes. Outcome: 57 For – 0 Against.

After this vote was taken, the Constitution was submitted to the NSW Government – Fair Trading – Registry Services. Copies of the Constitution have been circulated to all members of the AIP and I encourage all members to read it to understand their rights and responsibilities as members. Should you wish to access a copy of the new constitution please email info@aipack.com.au

Ralph Moyle FAIP, CPP
Education Coordinator
Australian Institute of Packaging (AIP)

AIP NATIONAL PARTNERS





On the 1 May the AIP held a VIP Cocktail Welcome function for the speakers, sponsors and international guests. Sponsored by Qenos, who are a long-standing sponsors of the AIP, the welcome function saw 160 people in attendance. A surprise for the evening was to allow the international guests the rare opportunity to meet a koala. The AIP would like to take this opportunity to thank Qenos for the continued support of the Institute and without them the event would not have been possible. For those who attended it was a magical evening, with wonderful weather in the beach and lagoon area of the Marriott Hotel creating fantastic global networking opportunities.





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WELCOME VIP COCKTAIL FUNCTION For 2018 AIP National Conference

PROUDLY SPONSORED BY

Qenos





"We feel the conference went so well. Congratulations! The koalas were an amazing touch that everyone (not just those of overseas origin) enjoyed. We feel the quality of the content, passion of the people, and networking with customers & suppliers has strengthened our commitment to the AIP organisation."



2018 AIP NATIONAL CONFERENCE VISUAL HIGHLIGHTS

PACKAGING GLOBALISATION



AIP

2018 AIP CONF.

2 & 3 MAY
2018

#2018AIP

@aippackaging

Welcome

60 SPEAKERS

20 COUNTRIES

IPPO

WOMEN IN INDUSTRY

DO THIS TOGETHER

BRIANNA CASEY



FOOD INSECURITY

FOOD BANK AUSTRALIA

1 in 5

3 in 5

1 in 5

3 in 5

1 in 5

3 in 5

1 in 5

3 in 5

MAIN AREAS

WORKING AUSTRALIANS

YOUNG PEOPLE

RURAL & REGIONAL

FOOD LOSS

FOOD WASTE

#zerohunger

no tax ded'n

major hurdle

logistic

we can handle logistics

DAY

1 in 10

entire day

EACH WEEK


~ NO FOOD ~

LET US KNOW

WASTE COMM'L HOUSEHOLD

DYANBURGESS.COM


KARLI VERGHESE



RMIT University

CRC

Cooperative research centre



FOOD HIERACHY

engage community

ZeroFOOD WASTE

FOOD AUDIT

REDUCE


Transform

50% staying at farm

engage

WORKFORCE BEHAVIOUR CHANGE

INDUSTRY LEADERS



MAP IT OUT

WHAT CAN WE DO BETTER

↓ WASTE

↓ PACKAGING

BALANCE

KARL DELLY



SEALED AIR eCOMMERCE

\$1.3 billion 2014

to \$4.5 trillion 2021

HATE WASTE

understanding PACKAGING & WASTE

innovation IS CRITICAL

PACKAGING PART OF SOLUTION

EG's

TV

↓ WASTE

↓ DAMAGE

PORCH PIRATING

BETTER PACKING REDUCES WASTE

WIN WIN WIN

Better Package

RECYCLABLE

20% LESS MATERIAL

NO SCRAP

WOOL FOR INSULATION



AR

↓ SPACE

↓ COSTS

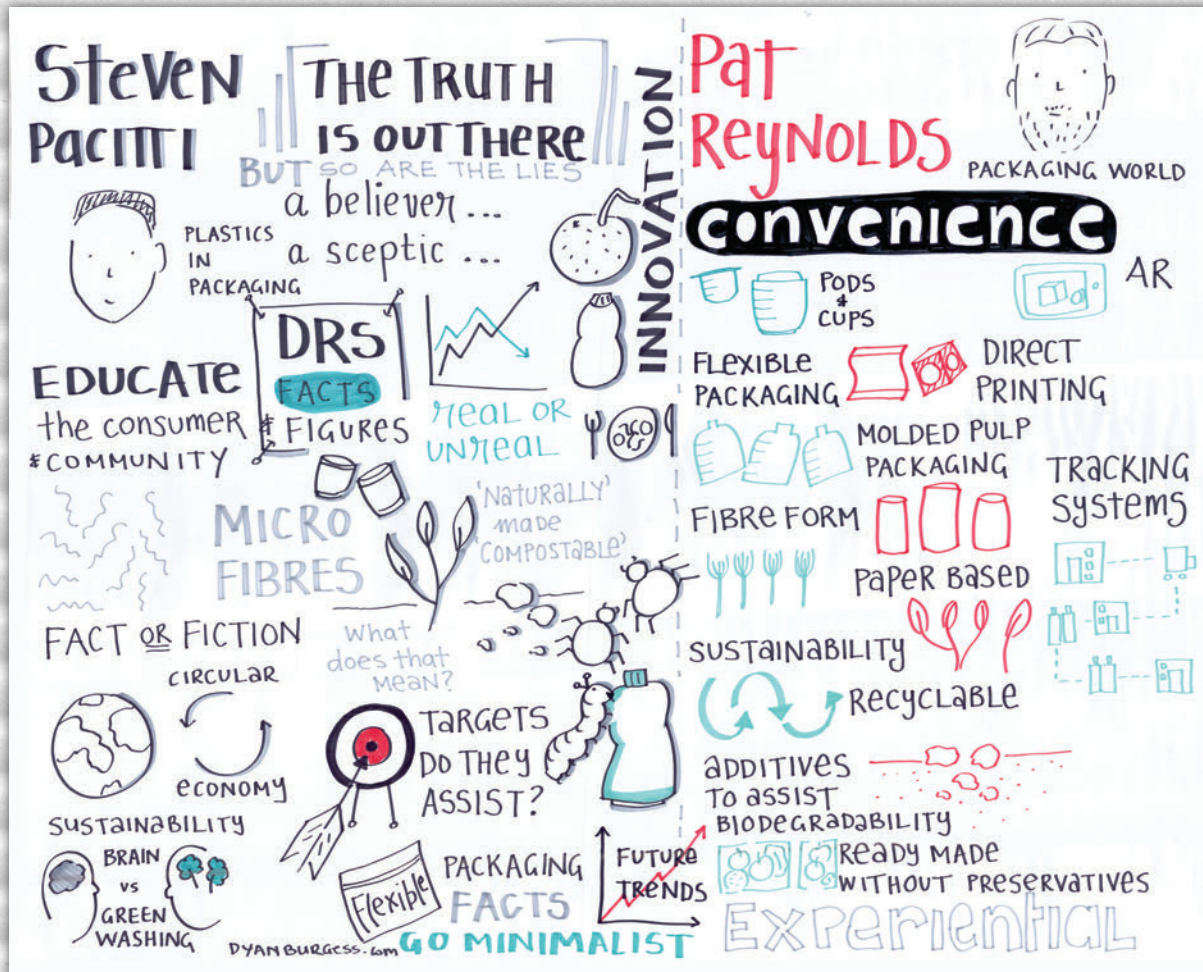
EDUCATE

LEGISLATION REGULATION

How These IMPACT

DYANBURGESS.COM

2018 AIP NATIONAL CONFERENCE VISUAL HIGHLIGHTS



2018 AIP NATIONAL CONFERENCE VISUAL HIGHLIGHTS



Alexandra Brayshaw

correlation b/w pain & difficulty to open

WHAT WE FOUND

'EVERYDAY IS AN ISSUE WITH PACKAGING'
- CONSUMER

'MAYBE a COUPLE OF TIMES a WEEK'
- INDUSTRY

EASY-OPEN

4m ARTHRITIS & aging population



hermetic seal

moulded plastic



slides

blister / strip

'child resistant'



CONSUMER FEEDBACK

INDUSTRY THOUGHTS

DATA REVEALS DIFFERENCES

EASE OF OPENING

DETERMINE PRODUCT PURCHASE

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ELI FEDER

FRESHLID



WINDOW and SEAL



OPEN & CLOSE
RESEALABLE
HOW ELSE CAN THIS BE USED?

PRINTABLE and PEELABLE



RETAIN FRESHNESS
↳ reduce waste

PRE MADE MEALS
HEAT & COLD SEAL

LESS PACKAGING



ON THE GO MEALS
ANTI-FOG

TAMPER EVIDENT

COOL SUPPLY CHAIN SUITABLE



CAN USE EXISTING MACHINES WITH FRESHLID

ROBIN DEARNLEY

POLYBUTENE-1 (PB-1)



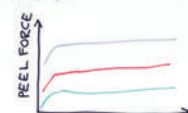
ALL OVER AUSTRALIA
QENOS
eXsource

EASY OPEN/EASY PEEL
RECLOSE/RESEALABLE



BAD SEAL EXPERIENCE

CAN USE WITH EXISTING MACHINES
CAN CUSTOMISE PB-1 FOR YOUR MANUFACTURING NEED



PB-1 CAN PROVIDE A GREAT SEAL EXPERIENCE

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2018 AIP NATIONAL CONFERENCE VISUAL HIGHLIGHTS

PAUL HAGGETT

'PRINT WARS'

Printing & Graphic TRENDS (VOC's)

WHO WILL BE 'THE FORCE'
Leaders TODAY
NOT LEADERS TOM.

MANY DOLLARS
INVESTED
IN INDUSTRY

LOOKING IN THE
Near - view
MIRROR

IMAGINE
DIRECT MAIL
PERSONALISED
30% ENGAGEMENT

USED IN PACKAGING
SHORT RUNS AT
CONVENTIONAL SPEED

SAPPHIRE PRO
can print on
PACKAGES

LABELS
MOSTLY
DIGITAL

WHEN WILL
DIGITAL HAPPEN
FOR PACKAGING

PRIMARY
SECONDARY
Deconstruct
PACKAGING
TERTIARY

WHAT IF
REMOVE
TOOLING
COSTS

RYAN SHARRATT

INDUSTRY
STANDARD
'ISO's'
COLOUR DRIVE
PROJECT
DISPLAY

CONSISTENCY
Managing Print
QUALITY

WORLD OF
SHOPPER
HAS CHANGED

SHOPPER
Experience

PACKAGING
IS KEY
'ZMOT'

MAKE COLOUR
STANDARD ACROSS
ALL PRODUCTS

'micro moments'
for the consumer

'IP IS IN
THE INKS'

TENSION
TRIANGLE

COLOUR LAB
Digital
Physical

OLD

NEW

dyanburgess.com

BRENDAN YEE

AR
VR

**MIXED
REALITY**

in packaging
**DIGITAL
LAYER**

more information
CAN BE PROVIDED

CHANGE
AS YOU
NEED
REMOTE

major
uses
currently
'GAMING'

helpstart
UNIVERSAL
APP
CLOUD BASED
ANALYTICS

**CALL TO
ACTION**

BUTTON

HANDS
FREE
TRAINING

HYPE CYCLE

REAL
TIME
DISPLAY

PRODUCT
PLACEMENT

Growth
areas
**Retail
Entertainment**

IN SOCIAL
f

**FUTURE
OF SHOPPING**

DIANBURGESS.COM





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2018 AIP NATIONAL CONFERENCE



"It is always a pleasure to be associated with the AIP events as they are very professionally organised and executed."



PLATINUM PARTNERS



GOLD PARTNERS



SILVER PARTNERS



BRONZE PARTNERS



MEDIA PARTNERS







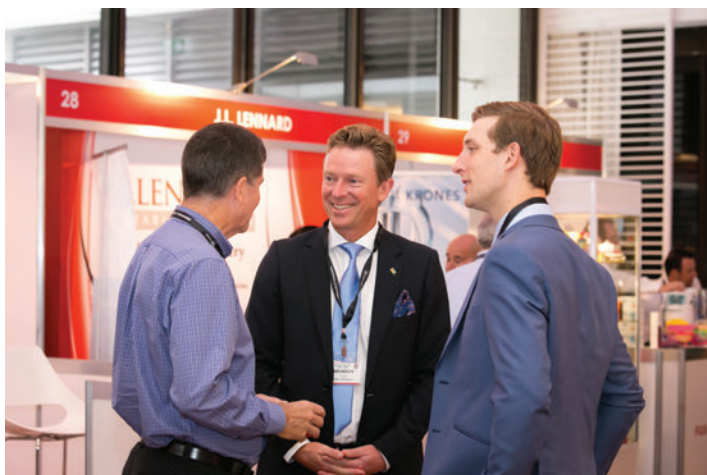




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2018 AIP NATIONAL CONFERENCE PARTNERS







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VICTOR CHANG HEALTH CHECK BOOTH

SPONSORED BY WELLMAN PACKAGING

Thanks to Wellman Packaging the 2018 AIP National Conference offered all attendees an opportunity for a Heart and Health Check 84 people were tested across the two days. 48% had one or more results outside of the healthy range. This is higher than our national average and could be a factor of the ages and career responsibilities of the individuals. Many of the participants tested explained that their jobs require very regular and lengthy travel which does impact their health choices.

The Victor Chang Health Check Booth is a fully portable and mobile heart health testing service. We bring the testing to you and in less than 10 minutes our qualified nurses test for three of the most common risk factors for heart disease; blood pressure, total cholesterol and blood sugar levels," explains Jayne Baric, Manager of the Health Check Booth.

"Our goal is to help people understand their results and what they can do to keep their hearts healthy. To date we've tested over 58,000 people since 2011 and over 30% had one or more results outside of the healthy range."

Cardiovascular disease is the leading cause of death globally. It claims the life of one Australian every 12 minutes and can affect anyone regardless of age or gender.

- THE VICTOR CHANG CARDIAC RESEARCH INSTITUTE IS ONE OF THE MOST RESPECTED HEART RESEARCH FACILITIES IN THE WORLD AND IS DEDICATED TO FINDING CURES FOR CARDIOVASCULAR DISEASE.
- 84 PEOPLE WERE TESTED ACROSS THE TWO DAYS OF THE CONFERENCE.
- 48% HAD ONE OR MORE RESULTS OUTSIDE OF HEALTHY RANGE AND WERE RECOMMENDED TO FOLLOW UP WITH THEIR GP.
- 10% PARTICIPANTS HAD HIGH BLOOD PRESSURE
- 40% PARTICIPANTS HAD HIGH CHOLESTEROL



As Australia's most expensive disease, it currently costs more than \$7.1 billion in healthcare expenditure per year. The Victor Chang Cardiac Research Institute is dedicated to finding better ways to diagnose, treat and ultimately prevent the onset of heart disease. The Victor Chang Health Check Booth plays an important role in educating the public about the risks of heart disease and its prevalence in the community.

www.victorchang.edu.au





The AIP continues to help Foodbank across Australia through the Queensland Hamper program and our newly-introduced Victorian Warehousing Volunteer Program. As a part of the 2018 AIP National Conference the AIP also had a stand for delegates to visit to learn more about our programs, how they can help and also a little bit more about Foodbank. Many delegates did not realise the severity of the hunger problems that we have in this country.

QUEENSLAND:

The Australian Institute of Packaging (AIP), the Australian Packaging and Processing Machinery Association (APPMMA) and the Supply Chain & Logistics Association of Australia (SCLAA) have spent their Christmas Party every year for the last seven years with a twist. The Members pack Foodbank hampers for people who need some assistance from their community at Christmas time. In 2017 over 150 people packed 1100 hampers for Foodbank to provide to those in need during the holiday season. The hampers included 800 family hampers and 300 ladies packs. The total valuing over \$73,000 worth of items that were either donated, or the funds raised for, by the Associations and the wider industry. Over the last seven years, the team has packed 6500 hampers to the value of close to \$730,000 for people in need and they look forward to packing even more hampers in 2018. All of industry is invited to donate items to the hampers, funds or attend and participate in the day in 2018.

[To get involved in the Christmas Hamper program click here](#)

VICTORIA:

SO HOW CAN THE AIP HELP FOODBANK VICTORIA?

Join our AIP Warehouse Volunteering Program; either as an individual, with your staff and colleagues, or even with your families. The AIP will work directly with Foodbank Victoria to book in some days where our volunteers can visit the Yarraville Warehouse and help pick and pack on-line orders and mixed grocery boxes. The day will start with a formal introduction on how Foodbank Victoria works and information on their charity partners.

SO HOW CAN YOU GET INVOLVED?

The AIP Foodbank Warehouse Volunteering Program will provide you the opportunity to better understand how Foodbank works and will be a combination of picking and packing of on-line food orders and packing mixed grocery boxes. The on-line orders have been placed by many of the 470 charity partners who look after the thousands of Victorians currently experiencing food insecurity. The mixed groceries items are donated by school students, community groups, clubs and corporate organisations who run food drives to provide the ingredients for the food boxes. Their charity partners are able to order these boxes which they then pass on to those families or individuals who need that extra help with grocery items. Each volunteer would have the opportunity to work in both areas. Shifts would ideally be for four to five hours.

[To get involved in the AIP Warehouse Volunteering Program click here](#)

AIP HELPS FIGHT FOOD WASTE



As a part of its commitment to the National Food Waste Strategy and the United Nations Sustainable Development Goal 12:3 the AIP are focused on providing long-term education and training on The Role of Packaging in Minimising Food Waste, Save Food Packaging, Sustainable Packaging and Lifecycle Analysis. The AIP also have a representative on the Department of the Environment and Energy National Food Waste Steering Committee and is a core contributor of the Fight Food Waste Cooperative Research Centre.





As the conference information promoted this wasn't just an AIP National Conference, it was an international conference '60 speakers, 20 countries' over two very full days. The weather, location and facilities all came together magnificently with the conference events (VIP Cocktails, Conference sessions Day 1 & 2, Packaging Industry display booths, Women in Industry Breakfast Forum and the combined PIDA & WorldStar awards Gala Dinner) to make the 2018 AIP National Conference an extremely important gathering for all those involved in the packaging industry.

There were many items of learning from the 2018 AIP National conference's four keynote sessions and the four breakout sessions, see a brief outline below from the conference sessions. The conference also provided many excellent networking opportunities, meeting new and old contacts and displays at the industry booths of new packaging and technologies. **My key conference takeaway from the broad spectrum of very relevant information, innovations, technologies and challenges presented, was the need for packaging professionals and manufacturing industry to ensure they are regularly involved in these types of industry forums, especially those with international speakers.** Although we are an island nation, we now live in a global community, where we can play a key part in addressing global issues such as food waste, environmental concerns – circular economy, litter, recyclability and resource sustainability.

The recent China restrictions on recycled packaging, the world focus on plastics litter and food waste, places packaging in the centre of government and consumer concerns. The conference highlighted the critical role that we each must play in communication and education of the vital role that packaging plays in protecting, preserving products and providing a convenient format that informs consumer handling, usage and disposal.

The conference presentations and displays provided a wide range of new technologies, packaging innovations and environmental tools. There was plenty of stimulation for packaging teams to optimise their packaging format for food safety, food quality, date labelling, renewable resources, extending shelf life and end of life awareness.

No longer can anyone involved in packaging development ignore their responsibility to design their packaging to assist retailers and consumer to reduce food waste and ensure the package can be recycled or repurposed.

2018 AIP NATIONAL CONFERENCE SESSION OUTLINES

DAY 1: Keynote Session 1 - Brianna Casey (Foodbank) and Karli Verghese (RMIT) set the scene for the conference with a focus on Australia's role in reducing the \$19 billion food loss or waste through the supply chain and how much of this food could be used to meet the needs of Australia's hungry. Karl Deily, the President of Sealed Air Food Care division followed on by providing a global perspective on the trends and opportunities to meet the food waste, E commerce and sustainable challenges with practical examples of food and beverage innovative packaging.

Keynote Session 2 – What could three top international packaging journalists Steven Pacitti (UK), Pat Reynolds (USA) and Andrew Manly (UK) tell us about packaging? Well let me say they were able to bring from their broad experience, some amazing insights into the global packaging challenges, and new innovations in packaging, equipment, distribution. Andrew Manly presentation highlighted the exciting new opportunities in active & intelligent packaging. Let me encourage you to take time to review their presentations.

Our own Lindy Hughson MAIP (PKN and Food & Drink Managing Editor) wrapped up the morning session by interviewing them along with UK's Des King to highlight how we can improve the consumer's negative perspectives of packaging.

Breakout Session 1A – Counterfeiting & Food Fraud

Many who attended this session were probably unaware of the seriousness that food & wine fraud has on 'Brand Australia's' reputation as a supplier of high quality and safe food/wine in the international market place. Economically the cost of lost sales alone is estimated at several billion dollars each year. Andrew Kneebone (Visy) & Tim Allman MAIP (Don KR Castlemaine) both highlighted these issues and identified a range of IT & practical packaging solutions to assist countries involved in exporting. Kimon Taliadoros (Empauer) did an excellent job in providing us with an understanding of the role of Blockchain technology in countering food fraud and greater transparency of data in the supply chain.

Breakout Session 2A – Plastics and the Circular Economy

Gayle Sloan from Waste Management Association set the session scene with a stirring presentation aimed at companies who produce product with single use plastics that cannot be recycled. Stefan Barot (Total Corbion PLA) outlined their company plans for PLA (Poly Lactic Acid) biobased sugar feedstock in Thailand commencing in August 2018. Although there are closed loop composting and recycling opportunities for PLA, this material doesn't currently meet Australian and New Zealand recycling or composting facilities requirements. The third speaker Jasson Mills (Ampcor Flexibles) highlighted Ampcor's 2025 commitment to recyclable and reusable packaging. Ampcor have recognised the importance in this commitment to provide their customers with life cycle assessments information in designing their packaging needs.

DAY 2 : Keynote Session 3 - Jacqui Wilson-Smith (McCormick) and Steven Chapman (Shine) shared their experiences (successes and failures), learnings and challenges in the journey of launching their company's innovative products.

Their honesty and openness was a valuable learning for all attendees – thank you. Check out Jacqui's Sharing Innovation Recipes video (<https://foodagribusiness.org.au/fan-chair-jacqui-wilson-smith-announces-as-2017-qld-agrifutures-rural-womens-award-winner/>)

The third keynote speaker Alan Spreckley (ABB UK) provided a different focus on innovation and insights into the latest technologies that robotics has brought to improving and enhancing production and processing.

Breakout Session 3C – Trends in Extending Shelf Life

The three speakers Karli Verghese FAIP (RMIT), Eric Schaller (Aneolia – France) and Johannes Bergmair (WPO – Austria) shared from their considerable knowledge and experience the important role that packaging, processing and design plays in addresses the global food waste concerns. Many practical pack examples, processing equipment were presented and Karli also outlined the approaches that were going to be taken in the Government funded Cooperative Research Centre on Fighting Food Waste.

Breakout Session 4B – APCO Packaging Recycling Label

A team led by Brooke Donnelly – CEO. Australian Packaging Covenant Organisation introduced their latest APCO initiatives to improve Australia & New Zealand recycling - the Australasian Recycling Label (ARL). Brooke also updated us on the very recent decision by Australia's environment ministers plan for all packaging to be 'recyclable, compostable or reusable' by 2025. APCO was given the role of leading this initiative. The other team members, Anthony Peyton MAIP (Director-Greenchip) explained and demonstrate the PREP recycling tool. Paul Klymenko (CEO - Planet Ark) explained Planet Arks role in administering the ARL and Jackie Smiles AAIP (Blackmores) provide practical examples of Blackmore adoption of the ARL.

Keynote Session 4 – Where to from here for the packaging Industry

Lindy Hughson facilitated the final panel discussion with the WPO team of Pierre Pienaar, Antro Saila and Chakravarthi AVPS and our AIP President Carol Kilcullen-Lawrence. The questions and comments by the panel highlighted the importance of communicating the vital role that packaging plays in assuring the safety and effectiveness of the product it contains.

Keith Chessell FAIP
Life Member of the AIP





When you get together with 500+++ of your nearest and dearest packaging friends from all over the world, the 'X' factor is so evident to all who have not experienced it before. To those who have "been there, done that" before, it is the normal state of mind when attending an AIP National Conference along with our WPO mates. Yes we can now call them 'mates' as they are back again after only 6 years since the last time and they want to be here more than anywhere else. They want to eat in surf clubs, hold koalas and drink beer; what is not to like about these people? It is because they too have the 'X' factor. You see, the 'X' factor is not just an Aussie thing. It really is fully international. From India to Indonesia, from Turkey to Japan, the 'X' factor is found in packaging people in abundance.

How do we know it exists? Well, ask those who have never experienced an AIP National Conference before but have had the discomfort of attending other, so-called conferences and they will tell you. Wow, is it always this friendly? Why is it that people want to talk with everyone they meet and keep talking? How do you decide to go to one session when you want to be at 3? It is the 'X' factor. Not that TV entertainment show, although there are some similarities when members get up on stage and start drawing funny shapes. This time, there is no judgement, just raucous laughter and applause.

Then there are the awards. There are a lot, as a lot has been done by so many from all over the world to make our industry better. Why do people fly around the world (over 200 people) to share in the global recognition that World Star awards provide. We Aussies still don't quite get these global awards as we are way down under, but we will. When there is a large pack of foreign photographers, squeezed into a corner to take photos of their local winner gaining World Star recognition because they know this is the peak. It means a massive gain for their business in not only their local area but also regional and global.

This is the 'X' factor at work, doing what it does so well. So what is this 'X' factor? Well I have been trying to find it, bottle it and then sell it. If I can pack this 'X' factor, then I can intoxicate the planet with this positive force. The wealth will be guaranteed. Well done AIP and all the packaging geeks who made it. Sorry to those who missed it but you may still have some 'X' factor in you, so don't lose it – use it.

Ralph Moyle FAIP, CPP, Education Coordinator, Australian Institute of Packaging (AIP)



"I loved the event, the key word that strikes me is Vibrant. The event was very vibrant, great attendance with excellent vibe throughout the days, the welcome and the dinner."

"This is a good opportunity to thank you once again for being such a welcoming host and for involving me in such a thoroughly interesting, enjoyable and well organised conference"





AUSTRALIAN INSTITUTE
OF PACKAGING
55 YEARS: 1963-2018

2018 AIP NATIONAL CONFERENCE



"Thank you very much for your great hospitality during the WPC event and AIP National Conference in Gold Coast, Australia. I am glad to be part of this great event."



"I have to say it is the most fantastic conference that I have ever attended. Great job and congratulations to you."



"Thank You for the opportunities provided throughout the week; meeting the WPC Board members, being a keynote presenter and plenary presenter. Really enjoyed the week. Congratulations to you and the AIP team for all the behind the scene work to make it such a success."



Sealed Air's food scientist Karl Deily believes the industry can do more to combat the belief that packaging is bad. President of the packaging company's \$2.7 billion food care division, Deily has worked hard on designs which contribute to a more sustainable food industry, proving that packaging can, indeed, be very good. As a keynote speaker at the AIP National Conference, held from 2-3 May in Queensland, he talked about top trends in food waste, food security and food safety.

"Packaging can have a significant role in reducing waste as well as driving towards a more sustainable solution," he said.

"Highly engineered suspension packaging for products such as TVs can reduce damage and offer a sustainable alternative. There is also packaging which can mask brand names on e-commerce parcels and prevent thieves prowling front door-steps."

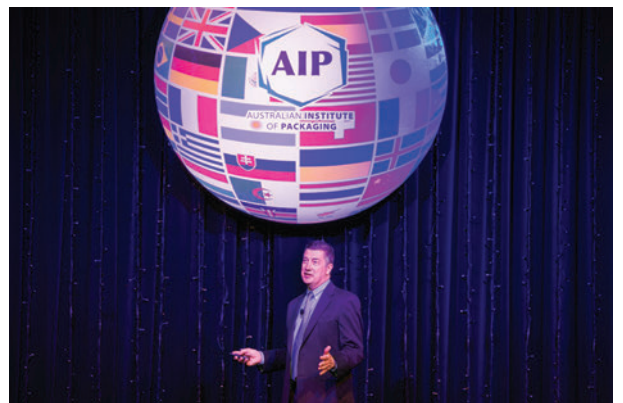
One of Sealed Air's developments is the Darfresh On Tray system, which enables denser packaging in shippers and a doubling of product shelf life. The retail tray lid and tray skin program have resulted in zero skeletal waste.

He believes suppliers should also be thinking about using statements such as "this packaging uses fewer trucks" to draw attention to the value of sustainable packaging. He cited Plantic as a company which uses bio-derived, renewable resin for its meat packaging, showing examples from Coles.

"Innovating the package as well as components to put on the package is vital," Deily says.

Here are some other strategies for reducing food waste, according to Deily:

- Repurposing 'ugly' fruit and veg in meal kits
- Better temperature control and sustainability of meal kits by using wool as insulation
- Working to get more food per truck, driving better shipping economics
- Better communication of best-before and use-by dates to avoid waste
- Industry consortiums getting the message out about technology and innovations around the materials they use for packaging.





Those with a passion for both packaging and the pen united at the AIP Conference to share their views about how the industry can evolve. Members of the International Packaging Press Organisation (IPPO), a professional global group of editors, journalists and writers who cover packaging and the packaging industry, flew over to network at the two-day conference on the Gold Coast this week.

And some even took to the stage to share trends, insights and opinions about where the industry is headed.

“Why aren’t we funding a TV program to tell the consumer about the complete process from farm to plate, and including details of packaging? Packaging voices are under-represented.” – Steven Pacitti.

IPPO president and editor of the UK’s *Plastics in Packaging*, Steven Pacitti, humorously covered a host of interesting plastics and packaging trends as part of his talk, entitled *The Plastics Files: The Truth is Out There*.

Pacitti talked about the study claiming the presence of microplastics in bottled water, which was, in his view, dubious – as microplastics are also found in air, beer, and cheese.

He also spoke about the need for the packaging industry to share “the great work” done in lightweighting and compostability.

“We need to make sure sceptics hear our stories, and for brands to advertise their sustainability credentials,” he said.

“Why aren’t we educating consumers about things like packaging made from sugar cane?”

Pacitti listed some of the goals and targets of big brands seeking to reduce their environmental impact – many of them by 2025.

He also discussed innovation in packaging such as the CFLEX pouch, which can be recycled into film; transparent pouches; genuine coconuts with straws and the brand name printed on the outside; plastic packaging which can feed marine life; dissolvable pouches for oatmeal or coffee; and edible wrappers.



INNOVATION, NOW

In his talk, Packaging World Editor Emeritus Pat Reynolds spoke about the importance of innovation in light of today’s ‘convenience-crazy’ consumers. “Companies need to innovate or risk failing,” he said.

Reynolds also pointed to trends in lightweighting, new materials, improving recyclability, smart packaging, and cobots as highly influential in brand development in 2018.

“It’s an emotional mindset. We like to be frightened every day by something new, and we are frightened by packaging.” – Des King.

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<http://www.packagingnews.com.au/news/aip-2018-creative-problem-solving-with-global-media>



He pointed to a reusable bottle which provides four beverages in one bottle, a twist-to-brew beverage with ingredients in the cap, as well as PepsiCo pods which house dry and liquid ingredients separately within the bottle.

"Millennials want to order online and they want their products to be experiential," he said.

"They want to do their part when they open it."

Reynolds also touched on innovations in paper, such as the Automato E-flute corrugated dispenser for tomatoes; the IntegraFlex collapsible cup for oatmeal and cereal; and talking bottles from KHS.

GOOD, NOT EVIL

Also on the line-up was Active & Intelligent Packaging Association (AIPIA) communications director Andrew Manly, who spoke about intelligent packaging as "a force for good" which can help brands increase security, improve supply chain management, and differentiate on-shelf.

"Packaging is not an evil to be tolerated," Manly said.

"It can be fun on a number of levels."

DEMON PLASTIC

Journalist and marketing consultant Des King shared his thoughts on the 'outrage' currently expressed in the UK about plastics packaging.

"It's difficult for me to think of any other facet of everyday life that has been so demonised so quickly, and which is so easy to love to hate," he said.

"Consumer perceptions are critical, and packaging only has eight seconds in which to persuade a consumer to buy the product.

"Given the horrified reaction to David Attenborough's Blue Planet footage, it is clear that protecting packaging's finer feelings has never been on the agenda.

"Who will voice the counter argument to fashion a defence no one is interested in hearing?

"Packaging and the consumer need more than a one-night stand.

"If we want packaging to be better valued by customers, it's up to us to be doing something about it – not relying on the rest of the supply chain to do the explaining for us."

A panel featuring the four communications experts was also chaired by PKN Packaging News publisher Lindy Hughson AAIP and covered issues such as educating consumers about technology that extends shelf life and the outrage over packaging waste compared to food waste.



"The AIP's preparation and execution are a credit to the team."





A national collaboration to help bridge the gap between Australia's \$20 billion food waste problem and the 3.6 million people affected by food insecurity was outlined this week at the 2018 AIP National Conference.

Keynote presenter, Karli Verghese of RMIT University, shared new details about the Fight Food Waste Cooperative Research Centre (CRC), which she described as "the most exciting thing that has happened in food waste in my life".

The CRC will comprise three research programs tackling three key problems: reducing food loss and waste throughout the

supply chain; transforming the unavoidable waste into valuable products; and engaging with industry and consumers to deliver change.

"Industry groups are going to be working with us on our different industry projects, and then we will be able to disseminate that out through the broader community through workshops, training courses, newsletters, and so on," Verghese said.

Keynote speaker and CEO of Foodbank Australia Brianna Casey told attendees that enough food is already produced globally to feed everyone.

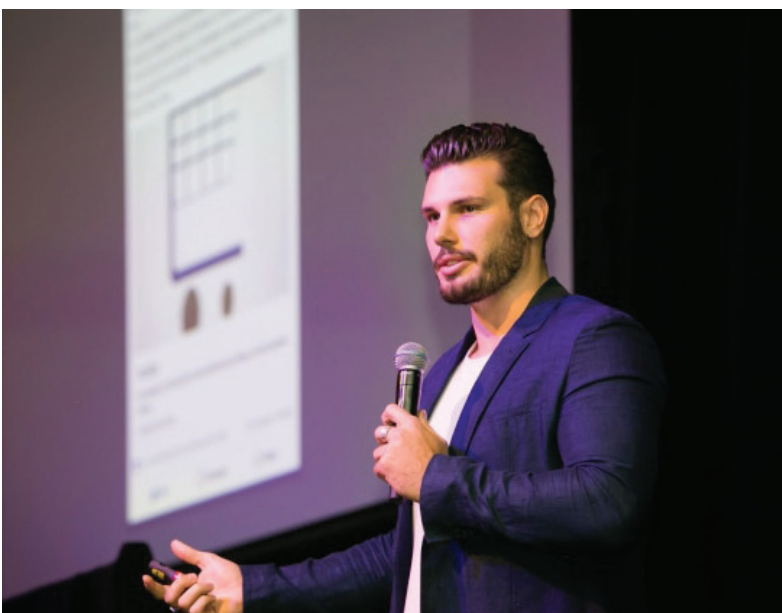
"Just a quarter of what we waste globally would be enough to end world hunger," she said. "We've got a pretty big incentive to do better than we are doing at moment, and the packaging industry is fundamental to getting it right." "If you're not driven by the social impetus of why we need to reduce global food insecurity, let's look at the environmental cost, not to mention the economic cost. If food waste were a country, it would be the third largest emitter globally."

Meanwhile, thousands of people in Australia are still missing out on food donations, according to Casey. "This is my big challenge, this is what keeps me up at the moment. I have got 65,000 people a month nationally that I can't get to because I haven't got enough food and groceries. Our charities are telling us there are that many people being turned away because I can't get them the food that I know is sitting out there in this big country of ours."

In Australia, Casey said, one in five kids are food-insecure, and one in 10 kids in food-insecure homes go a whole day each week without eating at all. Moreover, the problem is increasing over time, and not just in traditionally disadvantaged areas. According to Casey, taxation reforms are key.

"At the moment, if you're a food and grocery company or you're a farmer donating to Foodbank, you can claim a tax deduction on some of the costs of that food, but you can't claim a tax deduction on the cost of transporting the food."





Steve Chapman, who co-founded “smart drinks” company Shine+ with Zambrero food chain entrepreneur Sam Prince, says his road to success has been lined with thorns. Sharing his “hero’s journey” at the AIP Conference in Queensland last week, he described using his ego as armour throughout high school.

“You need to wear your ego comfortably - otherwise you will be found out,” he said. Always the “start-up kid”, Chapman sold his car wash services from his back-yard and carved out an inevitable path towards investment banking.

However, realising he was “more entrepreneur than accountant”, he came up with an idea to sell an app, called FaceBuy, for a billion dollars.

The next thing he knew, Facebook’s legal team sent him a cease and desist letter for trademark violations, and deleted the 8000-follower Facebook page Chapman had built.

“The toughest thing was spending my dad’s \$100K savings which were meant for his retirement,” he said.

His biggest insights came in this dark season, and he was able to rise above his circumstances and slowly pay his father back. It was a humbling time, with Chapman taking on a job working as a PA for Zambrero food chain founder Sam Prince for three years, taking notes and making burritos.

“The road back was tough, and I had to shed my old skin,” Chapman said.

Even the Shine+ launch was met with challenges. The natural nootropic drink sold out straight away, finding its way into 2000 stores in 18 months. But 90 per cent of the bottles they shipped broke – which led Chapman and Prince to a packaging team which helped them with a custom display holder which would ensure it wouldn’t happen again.

They went on to devise a new 400ml range to roll out nationally – but it too was met with challenges, with the matt black painted bottle chipping and flaking during delivery from China.

“We then had to create shrink wraps and depalletise, and apply new shrink wrap over the label,” he says. “We’re always on the journey of reinvention – and we know we will continue to feel the chaos of the unknown. But we will continue to believe that anything is possible.”



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<http://www.packagingnews.com.au/news/aip-2018-beverage-entrepreneur-rises-from-the-ashes>



There's a line of thinking that successful people are those who are willing to fail – and not just once, but as many times as it takes to reach their goals. This certainly seems to be the case with many start-up businesses. As the C.S. Lewis quote goes, “failures are finger posts on the road to achievement”.

At the AIP National Conference in Queensland last week, McCormick & Co head of global innovation Jacqui Wilson-Smith shared her personal story of obstacle after obstacle on the road to sales success, starting with the slowing sales of Gourmet Garden herb tubes.

In response to this product hiccup, Wilson-Smith's strategy was to throw herself into getting to know the brand's end consumers by visiting their homes and talking about their buying habits. This process enabled her team to switch from focusing on how to sell more tubes, and tap into what shoppers really felt in the herb section of the supermarket.

“When the consumer would go to the fixture in the herbs and spices section they would see a wall of green, and this was overwhelming – and when they didn't use those herbs at home, they experienced what we called ‘wilt guilt,’” she said. A series of ideation sessions followed as Gourmet Garden collaborated with suppliers and continued to visit consumers' homes in order to help develop new prototypes.

“For consumers, tube food was weird – squishing up basil and coriander and so on – so we tackled this consumer-led problem of a herb and spice that was closer to fresh, but would last,” Wilson-Smith said.

So they came up with a range of lightly dried herb pots which went on to win awards and met consumers right where they were at. Wilson-Smith says companies need to “look for failure” in a constructive way, with a willingness to “adapt and pivot quickly”.

As part of her customer-led plan, Gourmet Garden, which was acquired by McCormick & Co in 2009, has gone from strength to strength, more recently launching the disruptive Finishing Drizzles range which aims to help busy home cooks with healthier, fresher condiment options for meats.

Five key take-outs from Wilson-Smith's talk:

- *Inclusive diversity breeds innovation: Be inclusive with your consumers, customers, and suppliers.*
- *Be brave enough to say you disagree.*
- *Give people a voice so you ensure you're hearing from the right people. You never know where that good idea is going to come from.*
- *The world is changing more rapidly than ever before. Resist building the highways – we're all chasing economies of scale. Prove the path first.*
- *Create a culture of brave employees and suppliers who are willing to challenge the status quo.*



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<http://www.packagingnews.com.au/news/aip-2018-why-failure-is-an-option-on-the-path-to-success>

The Australian Institute of Packaging held its 2018 National Conference May 2-3 in Australia's Gold Coast, and at the display booths of the exhibitors on hand were some intriguing packages.

A relatively new insulation material drew the attention of conference attendees because of its unusual source: 100% lamb's wool. To be precise, it's the wool that grows around the lamb's belly. Traditionally viewed as having little to no value, it usually winds up in the landfill. But for the last seven or eight years, Woolcool of Australia has been felting it into long sheets that are cut and encased in a microperforated recyclable food-grade polyethylene. These wrapped sheets then go inside a corrugated case, where they outperform other insulating options for transporting temperature-sensitive goods, says Woolcool.

The firm says that when used with ice packs to establish the required cool temperatures for packaging food, Woolcool insulation has been proven to keep content packed at 1°C chilled below 5°C for at least 24 hours. Woolcool is sustainable, recyclable, compostable, and biodegradable. This insulation material has applications across many industries, from food and beverage to veterinary and pharmaceuticals.

But it may wind up fitting especially well in the expanding e-commerce sector, where shipments of fresh food are expected to grow rapidly. Woolcool calculates that compared to using the expanded polystyrene frequently used for insulation, this repurposed sheep's wool solution brings a 70% saving on movement/storage because the sheets can be shipped flat-packed. As for meal kit firms that have used Woolcool, the list includes My Food Bag in New Zealand and Hello Fresh in Australia, Europe, and the U.K. The cost of Woolcool is said to be comparable to EPS foam.

A cleverly designed standup pouch that looks a lot like a glass jar was shown by Omniverse Foster Packaging Group. It contained 500 g of Blueberry Muesli from Melbourne-based The Jar Co. The clear pouch provides full product visibility while a Zip-Lock reclosure feature makes it easy for consumers to reclose the pouch.

The Jar Co. wanted a novel look, and because it's a start-up, the firm couldn't afford to deal with a pouch supplier that would stipulate minimum order quantities. This made Omniverse Foster just the right match, as their specialty is serving customers with precisely those needs.

Making the pouch begins with digitising a photo of a clear glass jar with a gold-coloured threaded closure. To this file is added the front- and back-panel graphics. The file then goes to a printer who uses an HP 20000 to digitally print the graphics on a two-layer adhesive lamination of polyester and low-density polyethylene. Two rolls of printed film—the front of the pouch and the back of the pouch—go to Omniverse Foster, where a custom pouch-making machine marries the two in register and produces finished, zippered pouches.

Meanwhile, over at the Sealed Air display, a highlight was packaging holding Hommas from Australia's Obela Fresh Dips & Spreads Pty Ltd. The 220-g thermoformed container gets a clear flexible film lidding material that is a multilayer coextrusion from Sealed Air called Cryovac Sealappeal PSF ZAL. This material was selected by Obela primarily because its unique heat-sealing layer peels so smoothly from the flange of the container in the consumer's hands. The wide, low-temperature sealing window of 110 deg C delivers a tear-free peel as well as excellent seal strength while reducing energy consumption throughout production.

Another notable standup pouch was on display at the Auspouch booth. Holding 180 g of fruit chunks sold in the 7Eleven chain in Japan, the hot-filled pouch gets at least a one-year shelf life thanks to the gas barrier materials incorporated in the structure as well as the oxygen absorbing layer that's included. Mitsubishi makes the pouch by feeding two rolls of multilayer films into an unidentified pouch-making system. One roll, a three-layer adhesive lamination of SiOx/polyester/nylon, becomes the front, which includes a clear window that showcases the product inside. The other roll, a four-layer adhesive lamination of PE/Ageless oxygen absorbing layer/EVOH/nylon, becomes the back of the pouch.

By Pat Reynolds, VP Editor Emeritus, Packaging World







AUSTRALIAN INSTITUTE
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55 YEARS: 1963-2018

2018 WORLDSTAR AND PIDA GALA AWARDS DINNER



2018 WORLDSTAR AND PIDA GALA AWARDS DINNER





AUSTRALIAN INSTITUTE
OF PACKAGING
55 YEARS: 1963-2018

2018 PIDA GALA AWARDS DINNER



PIDA
PACKAGING & PROCESSING
INNOVATION & DESIGN
AWARDS 2018



PLATINUM PARTNERS



GOLD PARTNERS



BRONZE PARTNER



SUPPORTERS



PROUDLY COORDINATED BY



MEDIA PARTNERS





The winners of the 2018 Packaging & Processing Innovation and Design Awards (PIDA) for Australia and New Zealand were announced in front of 500 people during a gala dinner at the Marriott Hotel Surfers Paradise, Queensland. The PIDA Awards were held this year in conjunction with the international WorldStar Packaging Awards which saw over 22 countries in attendance to also collect their awards for 2018. The 2018 Packaging & Processing Innovation & Design Awards (PIDA) have been designed to recognise companies and individuals who are making a significant difference in their field across Australia and New Zealand. The PIDA Awards are the exclusive feeder program for the prestigious WorldStar Packaging Awards.

2018 DESIGN INNOVATION OF THE YEAR AWARD - BEVERAGE CATEGORY

The Design Innovation of the Year Award – Beverage Category will recognise organisations have designed innovative packaging and processing materials, packaging and machinery/equipment within packaging and processing for liquid or dry tea, coffee, water and soft drinks including wine, beer and spirits.

MATERIALS & PACKAGING JOINT WINNERS ARE: 8Kangaroos by ILNAM Estate and Polatote by Lactote.



8Kangaroos by ILNAM Estate have been awarded the win for a unique and innovative wine bottle shaped like a Kangaroo. In addition, all raw materials were chosen for their ability to be recycled and there was extensive thought and consideration in the development of transport packaging to suit the shape of the bottle. The bottle's unique shape makes it unlikely that it will be thrown away after initial use. It is envisaged that the bottle will be retained and used as a decanter, water bottle or just a curious item on a shelf.

The bottle being embossed at the base with the brand name means that the brand will live on after label has gone and wine has been consumed. Destined to be extremely successful in the international duty-free market the family-owned business has developed an outstanding and innovative packaging design.



Polatote is both an off-the-shelf supermarket/liquor shop beverage multipack and a portable ice cooler. No longer do you need an Esky style ice container and/or the traditional ice bucket to keep your drinks cold. Polatote has been fully redesigned as a highly functional shrinkfilm multi-pack with global influence and appeal. It is an ice cooler, or more accurately, a method for controlling the temperature of beverages when in and out of doors.

It is a comfortable, convenient and sturdy parcel/package for personal carrying and an easily and safely palletised multi-pack for general transportation and distribution. Polatote is a container to ensure original contents once consumed are recycled and do not become litter. Polatote replaces the standard type of beverage packaging presently used to deliver bottles of all types, metal cans and Tetra type cardboard packs to the market place.

HIGH COMMENDATION was awarded to Crush Mate Bottles by LION Dairy & Drinks



The Crush Mate Bottle has been designed as easy to crush, easy to recycle, easy to grip, easy to pour, lightweight bottle that fits 4 times more bottles in the recycling bin. It is designed for more effective recycling and has better pouring control with the larger handle size.

MACHINERY & EQUIPMENT WINNER IS: Container Deposit Systems Australia (CDSA) Vision & Sorting System by SAGE Automation



SAGE Automation developed a range of counting and sensing technologies to accurately determine the container types being retained - even when containers were not in their original condition. What's more, answering to the calls for IoT technology, the system provides valuable data which is delivered into the cloud and used for reporting. At the heart of the machine is the vision system which was provided by UniSA.

The camera uses an algorithm to identify what each item is and sorts them into the correct skid. This includes not just identifying cans and bottles, but also colour. The new development comes just ahead of the national legislation roll out of new Government Recycling Program. It places CDSA in the fortunate position of being able to help recycling plants to be up and running and ready for the new program in no time.

2018 DESIGN INNOVATION OF THE YEAR AWARD – FOOD CATEGORY

The Design Innovation of the Year Award - Food Category will recognise organisations that have designed innovative packaging and processing materials, packaging and machinery/ equipment within food packaging and processing including fresh, frozen or other.

MATERIALS & PACKAGING WINNER IS Radix Nutrition foil packaging breakfast pouch by Cas-Pak products.



The Radix Nutrition foil breakfast packaging is simple to use, accessible in any situation, preserves nutrients and there is no food waste. The packaging needed to be durable, yet lightweight as they didn't want to create problems for their users as a lot of their consumers are marathon runners, athletes, rugby players, endurance long distance runners, cyclists, campers and many other outdoor loving people. These people want to enjoy their athletic and outdoor endeavours and want to avoid increases in the weight of their kit so our pouch had to be highly functional, yet add no additional weight.

HIGH COMMENDATION was awarded to Grape N'Go 100% recyclable PET based resealable Fresh Lid by Result Packaging.



The Grape N' Go product is packed with controlled atmosphere in the punnet. The structure of the Fresh Lid has two laminated layers with perforated laser holes on the surface of the lid to allow for optimal O2 permeability. These non-visible to the eye holes allow product respiration and support an extended shelf life.

Grape N Go's reclosable lidding employs a special, uncured adhesive layer that is exposed when the consumer first opens the multilayered reclosable lid.

Once exposed, the layer maintains its adhesive properties for up to 20 uses, even under challenging cold conditions of refrigerated storage.

MACHINERY & EQUIPMENT WINNER IS Scott LEAP Suite of Technologies fully-integrated lamb processing system developed by Scott Automation & Robotics, in conjunction with Silverfern Farms and Meat & Livestock Australia (MLA).



Scott Automation & Robotics have developed a fully integrated lamb processing system for disassembling lamb carcasses into the standard bone-in retail cuts. Automation in this field has only been made possible with significant advances in innovation and technology in the areas of sensing, materials handling and processing methods.

One of the greatest leaps in innovation driven by the Scott LEAP suite of technologies is the Scott Dual energy X-ray absorptiometry (DEXA) sensing technology that enables variable raw material to be measured for size, anatomical structure, composition and yield.

The LEAP technology systems are the only fully automated lamb automation systems available worldwide.

2018 DESIGN INNOVATION OF THE YEAR AWARD – HEALTH, BEAUTY & WELLNESS

The Design Innovation of the Year Award – Health, Beauty & Wellness Category will recognise organisations that have designed innovative packaging and processing materials, packaging and machinery/equipment within cosmetics, toiletries, personal hygiene, supplements, vitamins, perfumes, hair body and oral care.

MATERIALS & PACKAGING WINNER IS: Flip-cap closure with ring-peel induction seal liner by West Wadding.



This new closure is all about accessible design. The new 63mm flip-cap closure with ring-peel induction seal liner provides innovative cap design, patented and manufactured in Australia. Through the design of the flip-cap closure and its seamless integration with their ingenious ring peel seal liner West Wadding have created a packaging solution that provides a positive consumer experience. A closure that is easy to open whilst also providing product protection and tamper evidence. They have actively sought to eliminate the frustration consumers currently feel about packaged products that are hard to open. Simply flip the cap and pull the ring seal. Just two motions. There is no need for those with sensory, motion and cognitive limitations to use dangerous tools or aids to open or use the product.

2018 DESIGN INNOVATION OF THE YEAR AWARD – DOMESTIC & HOUSEHOLD

The Design Innovation of the Year Award – Domestic & Household Category will recognise organisations that have designed innovative packaging and processing materials, packaging and machinery/equipment within domestic and household items, toys, stationary, gifts, clothing, garden equipment, decorating.

MATERIALS & PACKAGING WINNER IS: Precise Pour for continuous pour, anti-clog and tamper-evidence by Caps and Closures.



The Precise Pour Tap by Caps and Closures is designed to be used on bottles ranging from 500ml up to 25L to dispense liquid and is tamper evident.

The Precise Pour has many advantages including continuous pour, anti-glug, low height for stacking bottles, opting for venting, knock resistant. This product is designed to replace any tap that requires the customer to puncture the bottle and any tap that is designed to be sold as an additional component.

HIGH COMMENDATION was awarded to Animal Instinct's Feed My Fur Baby by OJI Fibre Solutions easy-to-open, re-sealable corrugated solution with scoop.



Feed My Fur Baby is a creative and functional design that moves away from traditional bags widely used in the Pet food market segment. The inclusion of a corrugated scoop also eliminates the need for a plastic scoop. The second scoop (spare) hidden in the box design is a good back up and a clever use of otherwise unused board.

The simple flexographic one colour print does a great job in providing 'Point of difference' for the product also keeps it clean and easy to read. The unique box is one that stands out from the competition, a sustainable packaging that is a talking point among the pet lovers.

2018 SUSTAINABLE PACKAGING DESIGN AWARD

The Sustainable Packaging Design Award is designed to recognise companies that have developed innovative packaging or processing solutions that incorporates sustainability considerations. Elements would include Social, Material, Source Reduction, Energy and Recovery.



PRIZE: \$10,000 ENVIRONMENTAL ASSESSMENT PRIZE AWARDED:

The winner of the Sustainable Materials & Packaging Award will be awarded the custom EcodEX packaging environmental assessment valued at \$10,000. Empauer will implement its acclaimed EcodEX assessment and provide the winner a reputable third-party environmental evaluation of the product package or formulation.

MATERIALS & PACKAGING WINNER IS: ICEE Containers biofoam PLA insulated boxes



ICEE Containers' innovative and patented process, moulds a strong and durable hinge in insulated foams using existing moulding equipment. The single moulding process which includes both the tub and the lid, results in a more efficient, insulated container that is supplied in folded flat configuration. The key sustainable feature is achieved by ICEE in their technical moulding innovation by moving from EPS to a Biofoam - a plant derived, sustainably grown crop and compostable material. The ICEE biofoam, folded-flat box, makes it economical and convenient to transport to, and warehouse at, the user's site. The folded flat box can then be easily stored in customer's homes or offices until they are collected for the next reuse cycle.

HIGH COMMENDATION was awarded to BioCane Range for the foodservice industry by BioPak



BioPak specialise in designing packaging using a unique substrate made from refined sugarcane pulp. The pulp packaging and any remaining food residues can be composted after use, effectively diverting waste from landfill and aligning with the principles of a circular economy. Their moulded bagasse (sugarcane pulp) pulp packaging is sturdy and provides a moisture and grease resistant surface that allows the packaging to retain liquids and food for a longer period of time. Their production facility is certified to ISO 14001 environmental standards, the products are made from rapidly renewable plant based agricultural byproducts designed to be compostable at the end of their life.

MACHINERY & EQUIPMENT WINNER IS CogniPRO Link for meat processing industry by Sealed Air Australia



Sealed Air Australia's CogniPro™ Link entry in this year's award isn't a piece of machinery or equipment, but a remote monitoring and digital analysis platform designed to improve throughput efficiency in Sealed Air vacuum chamber packaging equipment used by many large Australian and New Zealand Beef processors. Sealed Air's CogniPro™ Link remote monitoring and digital analysis platform provides 'Red Meat' processors the information response required on the processing equipment to improve their throughputs, operational performance. These key operational improvements impact resource consumption (water, electricity, labour and time). The other major advantage is the CogniPro™ link can be retrofitted to red meat processing equipment as old as 10 years.

2018 INDUSTRY PACKAGING PROFESSIONAL OF THE YEAR AWARD

The Industry Packaging Professional of the Year Award is designed to recognise and acknowledge the outstanding achievements and contribution by an individual currently working within the Packaging and Processing industries. The judges are looking for individuals who have demonstrated vision and leadership, shows innovation and not afraid to take risks. For significant and continued contribution of an Individual to the packaging and Processing industry over a minimum period of 25 years.

WINNER IS Craig Wellman FAIP, Chief Executive Officer, Wellman Packaging.



In 2001 Wellman Packaging decided to concentrate on moulding packaging products so the manufacturing facility was moved to Ingleburn and Craig promoted to CEO. The company changed its name to Wellman Packaging and has grown significantly under Craig's leadership and foresight of the packaging business. Not only has capacity grown enormously, but they have gone into moulding and supplying the market with PET injection moulded preforms as well as thin-walled packaging. Craig has demonstrated innovative packaging leadership in plastics technology and injection moulded components over 20 years. Being involved in the family business since the age of 6, he has led his company to become a Tier 1 supplier of rigid packaging solutions for FMCG in food, pharmaceutical, homecare, personal care and beverage. This is manufacturing and distribution operations across four main business units of bottles, preforms, closures and thin walled IML.

2018 APPMA SCHOLARSHIP

The APPMA Scholarship is seeking a Packaging professional that is looking to further their education by offering them a scholarship to enrol in the Diploma in Packaging Technology to the value of \$9000.

WINNER IS: Nathan Leong MAIP, Packaging/Product Technologist, Primo Smallgoods



Holding a Bachelor of Applied Science Degree (Major in Food Science & Nutrition), Nathan currently works in the food industry in Product and Research Development Roles. He understands that after twelve years in the food industry packaging design/development plays a pivotal role in the success of product protection, shelf life and marketing. Having this packaging knowledge in future will provide a diverse technical knowledge to add value in his current business in both areas of product and packaging. Nathan has always been curious about various types of corrugates used for sporting cards and its primary and secondary encased packaging formats. He has been fascinated by the progression in food packaging from tetra packs, reclosable films and creation of packaging through 3D printing. Nathan hopes that someday he might be fortunate enough to be a part of packaging design that may benefit the world in some way.



AUSTRALIAN INSTITUTE
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PIDA AWARDS WINNERS ANNOUNCED



PIDA
PACKAGING & PROCESSING
INNOVATION & DESIGN
AWARDS 2018

2018 PACKAGING COUNCIL OF NEW ZEALAND SCHOLARSHIP

The Packaging Council of New Zealand Scholarship is seeking a Packaging professional that is looking to further their education by offering them a scholarship to enrol in the Diploma in Packaging Technology to the value of \$9000.

WINNER IS Jaco Scheepers, Packaging Technologist, Synlait Milk



Jaco has always had an interest in polymer materials, additives and plastic conversion processes, especially in flexible packaging materials. During grocery shopping and where possible elsewhere, he regularly looks at different packaging types to satisfy his natural curiosity of materials and packaging.

He has learned that the integrity, quality or shelf-life of a product is directly linked to correct material choice and design of the packaging configuration. Jaco would like to broaden his knowledge across a range of different packaging materials, which will help allow him in years to come to develop with the Packaging Team at Synlait Milk great new and hopefully award-winning consumer packaging products that are both environmentally friendly and made from sustainable resources

2018 YOUNG PACKAGING PROFESSIONAL OF THE YEAR AWARD

The purpose of the Young Packaging Professional of the Year Award is to provide incentive and recognition to young professionals who are both currently working in and wish to continue their career path within the Packaging & Processing industry.

PRIZE SPONSORED BY



PRIZE: The winner of the 2018 Young Packaging Professional of the Year Award will receive an enrolment into Leadership Management Australia's 'The Performance Edge' - a 10 week development program valued at \$3750.

WINNER IS Regan Foster AAIP, Director, Omniverse Foster Packaging



Regan started with Foster Packaging 5 years ago with no knowledge of Flexible Packaging. He has embraced the role and is a fast learner having to deal with the many challenges of being in a young start-up businesses. He took on the role with great enthusiasm and has achieved multiple successes within business and the packaging industry.

As a young professional, Regan has had to deal with staff whom have many more year's work experience behind them which is not always easy, especially when a colleague can be twice his age. His goal has always been to achieve the desired result by getting the best out of his colleagues. His passion to please their customer base has had a very positive and encouraging effect on the other staff members.

Regan's 'can do' attitude taking on sometimes impossible tasks is infectious and proves to the team that they have the ability to do anything.

The 2018 PIDA Awards are sponsored by Platinum Partners: Empauer, Midway Metals and SMC Australia and New Zealand Gold Partners: Fuji Xerox and Wellman Packaging, Bronze Partner: Leadership Management Australia (LMA), Exclusive Media Partner PKN Packaging News and Food & Drink Business and Supporters: APCO, Ecobliss, Esko, Gunn Lab and ProPak Asia.

Coordinated by the Australian Institute of Packaging (AIP), the Australian Packaging & Processing Machinery Association (APPMA) and Packaging New Zealand.

COORDINATED BY



AUSTRALIAN INSTITUTE
OF PACKAGING



Australian Packaging and Processing
Machinery Association Limited



2018 WORLDSTAR PACKAGING AWARDS

HELD AS A PART OF THE 2018 AIP NATIONAL CONFERENCE



PIDA AWARD WINNERS TAKES OUT 2018 WORLDSTAR SAVE FOOD PACKAGING SPECIAL AWARD

The 2018 WorldStar Save Food Packaging Special Award winner was announced on the 2 May with one of our very own PIDA winners taking out the gold. Sealed Air New Zealand was awarded the gold award for their Fresh Technologies Ltd and Sealed Air Cryovac® Freshness Plus® design which was developed for a New Zealand company. It has enabled Fresh Technologies to extend the freshness of avocado and reduce product spoilage by 7.2 tonne. A 90 day shelf life supports wider distribution and the 3% growth in global consumption. With consumers seeking preservative-free freshness, Fressure™ avocado spreads and guacamole in Cryovac® Freshness Plus® deliver just this. Extended shelf life ensures less of our world's hard earned harvests end up in landfill and this also includes the copious resources used during harvesting. With humanity consuming 1.6 times more resources than what's available, extending the shelf life of food is pivotal for a sustainable and less wasteful planet.

GOLD

Another PIDA Award winner Woolcool Australia was also shortlisted in the same category and they were awarded the bronze. Summer temperatures, long supply chains and deliveries that sit on a doorstep for 12hrs+ present challenges for the fresh food/meal delivery sectors as contents must arrive fresh, with maximum nutrition but also be safe to consume. Woolcool keeps food packed at 1°C chilled below 5°C for at least 24hrs. Woolcool works by wool fibres absorbing moisture from the air and minimising humidity/condensation to create stable temperatures. When the wool is enclosed in a micro-perforated, recyclable, food grade liner the wool can 'breathe' and a natural cooling system results. As there is no odour, wool will not taint contents.

BRONZE

As there were only four finalists globally for this special award category this is a significant achievement for the Australia and New Zealand packaging industries and for the Australian Institute of Packaging (AIP) who have led the Save Food Packaging Award program for industry.

2018 SAVE FOOD PACKAGING AWARD FINALISTS WERE:

- Fresh Technologies Ltd and Sealed Air Cryovac® Freshness Plus® (Sealed Air, New Zealand)
- Woolcool (Woolpack Australia, Australia)
- Compostable Tray That Reduces Food Waste (Oneworld Packaging, S.I., Spain)
- Vegetable Oil Wrapper With High Barrier Poly laminate Film (Shongai Technologies Limited, Nigeria)



AUSTRALIA & NZ PACKAGING INNOVATIONS RECOGNISED IN WORLDSTAR PACKAGING AWARDS

Five Australian companies and one New Zealand company have achieved international recognition for their innovative and unique packaging designs in the prestigious WorldStar Packaging Awards with Woolpack Australia winning three award categories and Sealed Air New Zealand winning two. The winning companies include Woolpack Australia for Woolcool, SPC Ardmona for SPC ProVital® easy-open portion controlled fruit cup, Fresh Technologies Ltd & Sealed Air Food Care for Fressure™ and Cryovac® Freshness Plus®, Plantic Technologies for the PLANTIC™ R Packaging Material, Pact Group for the rPET Moisturelock Meat Tray and CHEP Australia for CHEP Retail Display Pallets (RDP) and Beverage Trays (BT) who between them took out ten award wins. These awards follow on from their recent wins in the Packaging & Processing Innovation (PIDA) Awards; which are the exclusive feeder program into the WorldStar Packaging Awards for Australia and New Zealand.

WORLDSTAR PACKAGING AWARDS – BEVERAGE CATEGORY - MATERIALS & PACKAGING WINNER - CHEP AUSTRALIA FOR CHEP RETAIL DISPLAY PALLETS (RDP) AND BEVERAGE TRAYS (BT)



RDP and BT are a unique packaging system in the way that they provide an alternative merchandising solution for the beverage category. A fully stocked RDP can hold 240 bottles of 1.25L soft drink and replaces the 20 cardboard cartons that would normally be required to move them through the supply chain. The RDP can be filled at the manufacturer and then be moved right through to the shop floor and used to display the product as opposed to the traditional shelving that would be used.

This improved replenishment efficiency, reduces store labour costs for retailers and improves on shelf availability, resulting in higher sales that benefit both retailers and manufacturers. The CHEP BT demonstrates structural creativity through its unique design features. The top of the tray grips the base of the soft drink bottle while the underside includes unique moulding that encompasses the caps of the bottles beneath it. This system provides fantastic stability that allows the fully loaded RDP

to move throughout the supply chain. The slim design also ensures the height of the tray is minimised, which leads to benefits when merchandising product as it doesn't hide the label and maximises exposure of the product to consumers. The trays are also nestable which improves efficiency in reverse logistics when the trays are returned empty from retailers.

WORLDSTAR PACKAGING AWARDS – BRONZE IN THE SAVE FOOD PACKAGING SPECIAL AWARD + PACKAGING MATERIALS & COMPONENTS CATEGORY + FOOD CATEGORY + TRANSIT CATEGORY + WOOLPACK AUSTRALIA FOR WOOLCOOL



Woolcool aims to reduce oil-based packaging use with an innovative product where the thermal insulation component is waste wool. Woolcool is made of 100% sheep's wool, a renewable resource that is biodegradable, sustainable, natural and compostable. The 'waste' wool they use cannot be used in fashion or in textiles/carpet because it is too coarse, does not produce a comfortable garment and won't absorb dye.

This wool has been used for housing insulation products and is now in our innovative packaging solution that outperforms other options currently on the market for transporting temperature sensitive goods. Woolcool is an environmentally-friendly product transforming supply chains and is a game changer in high performance packaging options for many different industries (e.g. food, beverage, pharmaceutical).

Woolcool cooperated with global wool mills to ensure 25% minimum Australian waste wool content is included in each shipment. It operates two Sydney manufacturing facilities where the product is assembled and distributed. Over 25,000 Woolcool liner units per week are assembled for national distribution.

WORLDSTAR PACKAGING AWARDS - GOLD IN THE SAVE FOOD PACKAGING SPECIAL AWARD + PACKAGING MATERIALS & COMPONENTS CATEGORY - FRESH TECHNOLOGIES LTD & SEALED AIR NEW ZEALAND FOOD CARE FOR FRESSURE™ AND CRYOVAC® FRESHNESS PLUS®



With an alarming 45% of all fruit and vegetables produced globally going to waste, it is clear that addressing food waste is a priority we should all own. The team at Fresh Technologies (New Zealand's largest avocado processor) are playing their part by ensuring their hard-earned avocado harvests are optimally processed and packaged, enabling a waste free supply chain that can span wide enough to support the global growth in avocado consumption. The combination of Fresh Technologies' best in class Cold High Pressure Processing (CHPP) and Cryovac® Freshness Plus® Active Barrier packaging has enabled Fresh Technologies to achieve a chilled shelf life of 90 days, which is a 60-day extension over existing passive high barrier packaging technology. This product is sold into the Food Service industry. The smarts behind Fresh Technologies' Cold High Pressure Processing is not only pivotal to driving extended shelf life, but also delivers high yields – recovering 100% of avocado flesh, leaving only the skin and seed.

Avocado in its natural state would last between 7 – 10 days (chilled), but smart processing and packaging technologies have enabled the shelf life. With Avocado consumption growing globally by about 3% every year and are New Zealand's third largest fresh fruit export this innovative technology sets Fresh Technologies apart.

WORLDSTAR PACKAGING AWARDS – FOOD CATEGORY - PLANTIC TECHNOLOGIES FOR THE PLANTIC™ R PACKAGING MATERIAL

The growing trend of consumer awareness towards the impact of their actions on the environment has seen Plantic Technologies successful in developing and commercialising ultra-high barrier bio-plastic materials. One of the ranges of materials PLANTIC™ R has many unique features, ultra-high barrier, renewably sourced, high clarity and certified. PLANTIC™ R material is utilising the best of Plantic bio based high barrier material with PET to create a material that is globally unique. PLANTIC™ R material is manufactured using modern technology where thin layers of Polyethylene Terephthalate (PET) are adhered to a core layer of renewably sourced, ultra-high barrier PLANTIC™ HP sheet. The PLANTIC™ HP core provides exceptional gas barrier and the PET provides moisture/water vapour barrier to the structure. PLANTIC™ R is very versatile and suitable to most thermoforming and tray sealing applications. The renewable content can be altered to meet specific requirements. Among the unique features of PLANTIC R™ include: Recyclable High Barrier Pack, High renewable content, Outstanding gas barrier performance, Excellent barrier to taint and odour, Sealable to PET based lidding films and Excellent surface gloss.



WORLDSTAR PACKAGING AWARDS – FOOD CATEGORY - SPC ARDMONA FOR SPC PROVITAL® EASY-OPEN PORTION CONTROLLED FRUIT CUP

The development of the SPC ProVital® easy open portion controlled fruit cup range represented SPC Ardmona's commitment to being at the forefront solving the accessibility issue within healthcare. The SPC ProVital® range of fruit cups were specifically designed with easy open packaging, which was developed using the guidelines established by Georgia Tech and Arthritis Australia, to assist with designing products that all consumers can open, including those with reduced fine motor skills, dexterity and strength. SPC Apple ProVital® Puree was ISR tested and received Arthritis Australia's +8 accessibility rating. This is the highest possible rating and predicts that 95% of the population can open the SPC ProVital® fruit Cup easily. The SPC ProVital® fruit cup range has also passed Georgia Tech's 'ease of use' consumer testing, which validated the ISR result. SPC Ardmona's existing fruit cup had previously received an accessibility rating of 0. The marked improvement in accessibility score indicates per the guidelines that 20% more of the population are able to open the product easily without assistance and without the help of a tool. Given this 20% increase in general population accessibility of the fruit cup, the SPC ProVital® easy-open cup should contribute to reducing food waste generated as a result of inability of patients to independently open their food. Responsible use of packaging incorporated in this project includes the use of recyclable materials including the cup and shrink sleeve label. This project which involved collaboration with multiple different suppliers across the globe, ultimately benefits the greater good by directly addressing a key issue facing Australia's rapidly ageing population of accessibility while also improving efficiency for healthcare institution by reducing food waste.



WORLDSTAR PACKAGING AWARDS – PACKAGING MATERIALS & COMPONENTS CATEGORY - PACT GROUP FOR THE RPET MOISTURELOCK MEAT TRAY

Creating a suitable alternative to the hard to dispose of expanded polystyrene (EPS) meat trays has been a long running environmental challenge. Pact Group developed, designed and manufactured the rPET (Recycled Polyethylene Terephthalate) Moisturelock Tray. The new tray comprises 50% recycled material and is accepted by every kerbside recycling scheme. It is made from clear plastic, not black, so it can be easily separated in the recycling centres. The real innovation however lies in the trays ability to capture fluid in the base. The little 'dimples' in the bottom of the tray hold the fluid there even when tilted or turned upside down, meaning customers don't have to worry about any meat fluids sully their shopping or having to remove and dispose of the unsightly blood soaked pad prior to preparing their meat. The labour efficiencies achieved through removing the soaker pad equate to approximately 70,000 hours for the meat processor. By moving from EPS trays to rPET Moisturelock, the equivalent of 14 Olympic size swimming pools full of polystyrene are saved from landfill every year and the avoidance of the cost to landfill the community equates to \$1.8 million per annum.

PROF. HARRY LOVELL, OAM, FAIP RECEIVES GLOBAL LIFETIME ACHIEVEMENT AWARD



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During the 2018 WorldStar Packaging Awards the World Packaging Organisation honoured four Lifetime Achievement Awards from across the globe with the final one of the evening being awarded to our very own Emeritus Professor Harry Lovell, OAM, FAIP. The Lifetime Achievement in Packaging Award was established with the aim of acknowledging and rewarding excellence in all aspects of packaging science, technology, design and application across every country around the world. The discipline of packaging is one that is truly global. The World Packaging Organisation is in a unique position to identify leading practitioners from around the world who have consistently pushed the boundaries in advancing the art, science and application of packaging to serve the needs of an ever more demanding society. These prestigious awards will celebrate and preserve in perpetuity the collective achievements of these innovators.

Emeritus. Prof Harry Lovell, OAM, FAIP attended the evening with his wife Nora and his son David and received his Lifetime Achievement Award to a 500 person standing ovation. Professor Harry Lovell has practically devoted his entire life to furthering education; in particular through the Australian Institute of Packaging. His prime focus has been to impart knowledge and teach others. Harry was instrumental in reinvigorating the Australian Institute of Packaging not only as an educational body but also a business unit during his terms as National President in 1990s. The development of a successful suite of educational and technical solutions for members was underpinned through the establishment of a successful collaborative network between leading packaging technologists across Australia and also leading firms focused on the manufacture of packaged goods. Harry has had many appointments over the years, sat on various judging panels, published numerous articles on food technology and packaging as well as delivering numerous papers across the globe.

The Australian Institute of Packaging (AIP) are extremely proud of Harry and for Harry to be recognised in front of his peers, mentees and family was a rare moment that all whom attended will hold dear.





Neuroscience is revealing the obstacles leaders face – as well as some new opportunities – when it comes to leveraging the benefits of workplace diversity. More than 150 food, beverage, and packaging professionals headed to the Women in Industry breakfast forum last week, hosted by PKN Packaging News and Food & Drink Business, to hear about the latest thinking in leadership development. Keynote speaker, leadership coach, and author Belinda Brosnan told attendees at the forum, which was held alongside the 2018 AIP National Conference at Surfers Paradise, that the brain loves comfort and likes to operate in autopilot.

The workplace of the future, however, needed leaders that could provide stability amidst chaos in order to navigate the challenges of fast-paced change in the food, beverage and packaging industry, Brosnan said. How do we re-think the way we deal with people who are ultimately different to us, in our organisation and externally? With this in mind, leaders must become tuned in and adept at working with people who are not like them.

“We now have amazing knowledge of the brain and how to maximise that so we can lead ourselves well though this change,” she said. “The opportunity for us is to become tuned-in leaders, where we are so aware of how we are operating that we are able to navigate anything.”

Brosnan, who has just launched her book *Start with You – Lead from the Inside*, said the brain uses up 25 per cent of our energy, which is why we seek to operate in this autopilot mode. ***“As human beings, we naturally like people who are like us. That’s how we’re wired, so how do we bridge that gap? How do we rethink the way we deal with people who are ultimately different to us, in our organisation and externally?”***

“As human beings, our number one need is to belong... and this can lead to groupthink...and often opportunities are missed,” she says. Brosnan said the key lies in how we navigate our own biases, an area that she focuses on in her coaching business, which includes Influential Women Masterclasses.





GOING DEEPER WITH INCLUSION

A panel of food, beverage and packaging leaders, moderated by Food & Drink Business and PKN Packaging News publisher Lindy Hughson, also included views on inclusion and diversity, with solutions to tackle bias. McCormick & Co head of global innovation, Jacqui Wilson-Smith said there was a compelling business case for encouraging diversity.

“The studies are really proving that it’s more than just about fairness and gender representation; it’s actually going to drive commercial results. Diversity is giving us new perspectives, ways of solving problems more quickly, and providing agility to business.”

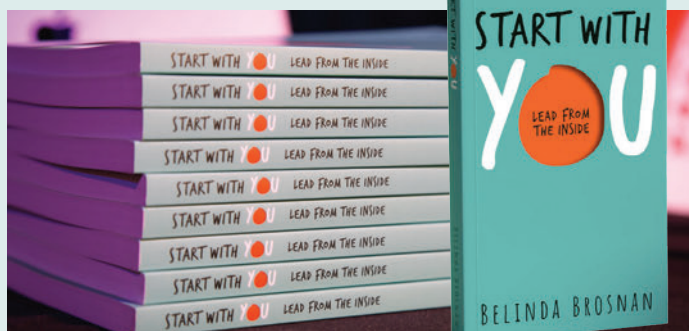
Women are more educated and highly educated than our male counterparts, and in Australia, education spending comes from the community, the taxpayer... Nestle Australia manager – Oceania of innovation acceleration, Nina Cleeve-Edwards, noted a disconnect between education levels of men and women, and their levels of employment in leadership positions.

“Women are more educated and highly educated than our male counterparts, and in Australia, education spending comes from the community, the taxpayer,” she said.

In addition to the issue of the underemployment of women, a lack of gender diversity therefore meant that the community was not seeing a return on its investment, Cleeve-Edwards said. Tna Solutions co-founder and director Nadia Taylor told attendees her company chooses the best person for a position regardless of gender, and offered flexible conditions to attract women, although this wasn’t always easy.

“Finding women engineers is really challenging, so this is really difficult for us. My husband and I are very big on getting this gender balance right in our company. We need to start educating people from a younger age and encouraging them. We need to change the mentality at home and in school.”

START WITH YOU BOOK - SPECIAL DISCOUNT FOR AIP MEMBERS



Belinda Brosnan formally released her new book *Start With You - Lead from the inside* at the Women in Industry Breakfast. *Start with You - Lead from the Inside* offers the tools to find your voice and propel your leadership out of autopilot to become a highly-valued and emotionally aware leader. If you would like to order a copy of the book please visit belindabrosnan.com use the discount code for AIP which is START. Postage is flat rate \$10.

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<http://www.packagingnews.com.au/news/aip-2018-science-and-diversity-intersect-at-women-in-industry-event>

One of the core objectives of the Australian Institute of Packaging (AIP) is to ensure that individuals are recognised for their significant contributions to the packaging industry. Dr Carol Kilcullen-Lawrence PhD, FAIP, National President of the AIP had the opportunity at the gala awards night on the 2 May to present five AIP Special Awards. The AIP Special Awards are not given often and are designed to recognise inspirational individuals who have contributed significantly to the packaging industry over many years.

The first award is the AIP Fellowship. The grade of Fellow is the highest recognition to Australian Institute of Packaging Members. The key requirement is a significant and sustained contribution to the technology, science or application to packaging.



AIP FELLOWSHIP TO JACKY NORSDVAN

Jacky Norsdvan, Packaging Specialist, Nestle Australia has been recognised with a Fellowship for her work in the packaging industry over the last 25+ years that has resulted in change in the packaging industry, bringing packaging sustainability, recyclability, labelling, and accessibility, to the forefront of packaging design. She has helped develop tools and processes and engaged stakeholders to enable informed decisions on packaging sustainability and packaging accessible design in the concept phase of packaging development, which is key to improving environmental performance and packaging accessibility. Jacky is also a very strong collaborator across the industry and have been instrumental in a number of collaborations between business and industry. Her work has included working with Planet Ark, Arthritis Australia and the Sustainable Packaging Alliance, as well as being a Brand Owner Director on the Board of the Australian Packaging Covenant since 2016. Please join us in congratulating Jacky Norsdvan, Packaging Specialist, Nestle Australia in being awarded her Fellowship to the AIP.



AIP FELLOWSHIP TO PHILLIP ROLLS

Phillip Rolls, Managing Director, Rolls Pack has been a Member of the AIP for twenty years and is a business visionary. He has led his own packaging company to success through a pioneering spirit, positive thinking and strong business acumen. Motivated and hands-on, Phillip is constantly on the search for new innovations. This thirst for knowledge and commitment to knowing where the industry is heading, has seen his business grow from a small plastic bag manufacturer to respected industry leader. Today, with over thirty years' experience and acknowledged as one Australia's leading producers of security, retail and food packaging, Phillip risks have achieved great results. His flexible and open-minded leadership style, engagement of quality staff and an unwavering commitment to product quality have been integral components in establishing Rolls Pack's outstanding reputation. Dedicated to the many long-term clients and 75 loyal staff, Phillip is also a strong advocate for strengthening connections with the community and playing an active role in supporting local charities. Please join with us in awarding Phillip Rolls, Managing Director of RollsPack with a Fellowship to the AIP.



AIP LIFE MEMBERSHIP TO KEITH CHESSELL FAIP

The next AIP Special Award has only ever been awarded five times in 55 years. Keith Chessell has a 46-year career in the Food, Beverage & Confectionery industries with extensive experience in the innovation and development of new products and the relaunch of existing products and packaging. In recent years his focus has been on sustainable packaging design and has been a significant and invaluable contributor to the development and judging of the Save Food Packaging and Sustainable Packaging Awards, the successful participation of the AIP within the National Food Waste Strategy and the newly formed Fight Food Waste Cooperative Research Centre and is the current AIP representative on the LCA Standards Australia committee...and he thought retirement was going to be relaxing. Please welcome Keith Chessell to receive Life Membership to the AIP.

2018 AUSTRALIAN INSTITUTE OF PACKAGING (AIP) SPECIAL AWARDS

Held alongside 2018 AIP National Conference



AUSTRALIAN INSTITUTE
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FOUNDERS AWARD TO PIERRE PIENAAR FAIP, CPP

The Founders Award has been named to honour the Foundation Members of the Institute and to recognise their contribution to the development of packaging technology in Australia. The Founders Award shall be given for outstanding performances which in a real way enhances the profession of Packaging Technology. Only three people have ever attained this award; Professor Harry Lovell OAM, George Ganzenmuller and Llewelyn Stephens. The AIP are very excited to make it four.

With 30 years extensive experience in the packaging industry Pierre Pienaar has been instrumental in the continued growth and success of packaging education and training around the world. Pierre has given of his time and knowledge to assist developing countries with packaging education and training and has lectured in the technology and science of packaging at various universities across the globe. Closer to home Pierre accepted the toughest role of all which was filling Harry Lovell's shoes and leading the education portfolio for the AIP across Australasia. His drive, hard work, long hours and commitment to improving packaging education across the world is remarkable and we at the AIP are proud to call him our Education Director. Please welcome Pierre Pienaar to be the fourth recipient of the AIP Founders Award.

DISTINGUISHED SERVICE AWARD – NERIDA KELTON MAIP

Nerida Kelton MAIP has been involved with the AIP since 1998; yes that is nearly two decades ago. Starting out as the national PR and Marketing Manager of a large labelling firm that became one of the first sponsors of the Institute's first major national technical conference in many years her involvement with the AIP continued to grow. Her professional strengths in marketing and commercial focus helped the AIP through a significant transformation twenty years ago that has shaped the Institute we see today.

Having joined as an associate Member of the Institute a key focus for her has always been to support the growth of people of all walks in life in many facets of the industry. Whether it was to help find a new packaging job, help seeking a new machinery system, or connecting teams in the pursuit of a successful project, nothing is ever too much trouble for her. Nerida is very modest and has always increased her own broad knowledge of not only packaging technology in all its forms but also the packaging players and kindred associations around Australasia, and more recently around the world. Nerida is constantly sharing knowledge and connections with others, plus the opportunities they bring, all testament to the outstanding service she has brought to the AIP, and our members, above and beyond various formal roles, which are now a strategic element of the management of the Institute.

She works tirelessly to ensure the AIP is represented at the highest level within all facets of our industry, from organising courses, speakers and site visits for events up and down the country, to coordinating our key annual charity event with our partners, packing Christmas hampers for Foodbank, representing the AIP on the World Packaging Organisation board or helping with the National Food Waste Strategy...the list goes on. The AIP wouldn't be here today without her superb organisational skills and exceptional leadership.





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AIP'S ROLE ON STANDARDS AUSTRALIA



Keith Chessell is currently the AIP Representative on Standard Australia newly formed EV-021-03 (Environmental Labelling & Life Cycle Analysis standards). If any AIP members would be interested in providing input to any proposed Environmental Labelling & Life Cycle Analysis standards, please email Keith (kchessell@aipack.com.au). For those who respond, Keith will keep them advised of any proposed Standard changes and seek their comments in providing feedback to both Standards Australia and the International Standards Organisation.

WINNIE WOOLCOOL CHAMPIONS SUSTAINABLE INSULATED PACKAGING TO HELP SAVE OUR PLANET



The fight to reduce the use of polluting and unsustainable packaging has a new hero - Winnie Woolcool! The eco-warrior ambassador for the Australian insulated packaging company Woolcool made her debut at this year's Sydney Royal Easter Show. The life-size sheep made almost entirely of sheep's belly wool represents a new insulated packaging solution that is made out of one of the world's most natural materials - wool.

Woolcool CEO, Joanne Howarth, says the company developed Woolcool insulated packaging to help deal with the increasingly urgent need for non-polluting packaging. "This totally sustainable, eco-responsible product launched in 2016 is reducing Australian landfill by replacing millions of petroleum-based polystyrene boxes," she says. "We have simply borrowed from nature and utilised the unique thermal qualities of sheep's wool. What we have created is a biodegradable and compostable product that outperforms all other synthetic insulated packaging including polystyrene."



Woolcool insulated packaging is made entirely of felted sheep's belly wool combined with a recyclable food grade liner. "Within the first year of trading, more than two million polystyrene boxes were removed from the environment and replaced with Woolcool insulated packaging which saw the product transporting all sorts of fresh foods, seafood and pharmaceuticals in an environmentally responsible manner." "This achievement alone saw us win two awards at the 2017 Packaging and Processing Innovation and Design Awards (PIDA) and four awards at the 2018 WorldStar Packaging Awards."

Cool chain supply companies are reporting that not only does Woolcool outperform other packaging products, it is opening new markets for them because it's allowing frozen and chilled goods to be transported much greater distances and still arrive in the same fresh condition. "Woolcool's unique attributes are also resulting in a multitude of cost savings for customers in areas such as reduced food loss as well as fuel, transport and storage savings. Meal delivery companies are now discovering the benefits of Woolcool insulated packaging with their customers who are giving them a big tick for using packaging that is environmentally responsible," she says.



PACKAGING'S ECOLOGICAL FOOTPRINT

As global retail sales of packaging increased by 2% in 2016, the environmental damage caused by the “make, use, dispose” economy is of growing concern. This is particularly

evident in Asia, Latin America and the Middle East/Africa, which are seeing ongoing population growth. The sustainable development of packaging is a pressing necessity ecologically, and also offers opportunities for businesses along the supply chain.

PACKAGING IS A NECESSITY; BUT SO IS ITS SUSTAINABLE DEVELOPMENT

Although it varies a great deal by material, geography and manufacturer, the environmental footprint of packaging remains an ecological problem. Packaging's primary function of protecting its content is, in itself, a sustainable benefit. At global level, the United Nations estimated food waste in 2013 to make up 35% of all foods produced. Using packaging for foods extends its shelf life, protects against damage and informs end users on best practice for consumption. The uptake of packaged food at the expense of loose items is widely recognised as a primary means of reducing food waste. A 2014 study by Denkstatt shows how using packaging for certain foods can overall be more positive than harmful to the environment. On the other hand, the increase in packaging use creates several other ecological problems. The WWF Living Planet Report states that every year, we use Earth's resources at more than 1.5 times the rate nature can renew them. Like most economic activities, such as oil and apparel production, the packaging industry contributes to the depletion of natural resources such as minerals, wood and water, but also to air, landfill and seabed pollution and to the harm of various life forms. This is caused mainly through the creation of material and toxic waste. According to the European Commission's Eurostat body, 160kg of packaging waste per inhabitant was generated in the EU-28 alone in 2013. The need for greater sustainability in packaging is therefore widely recognised as an ecological necessity.

PACK VOLUMES (AND ECOLOGICAL FOOTPRINT) IS BIGGEST IN THE DEVELOPING WORLD

With by far the largest population, the Asia Pacific region dominates global retail packaging volumes, at sales of 1.4 billion units in 2016. The Middle East/Africa is seeing the fastest growth, whilst the economic slowdown in Latin America is not preventing consumers' need for everyday essentials growing rapidly. In many places, such as India and Colombia, waste is primarily generated upstream in the supply chain; for instance at the production stage. Much plastic and metal packaging accumulates in landfills and waterways, as recycling remains largely under-developed.

Volumes and growth by region between 2011-2020



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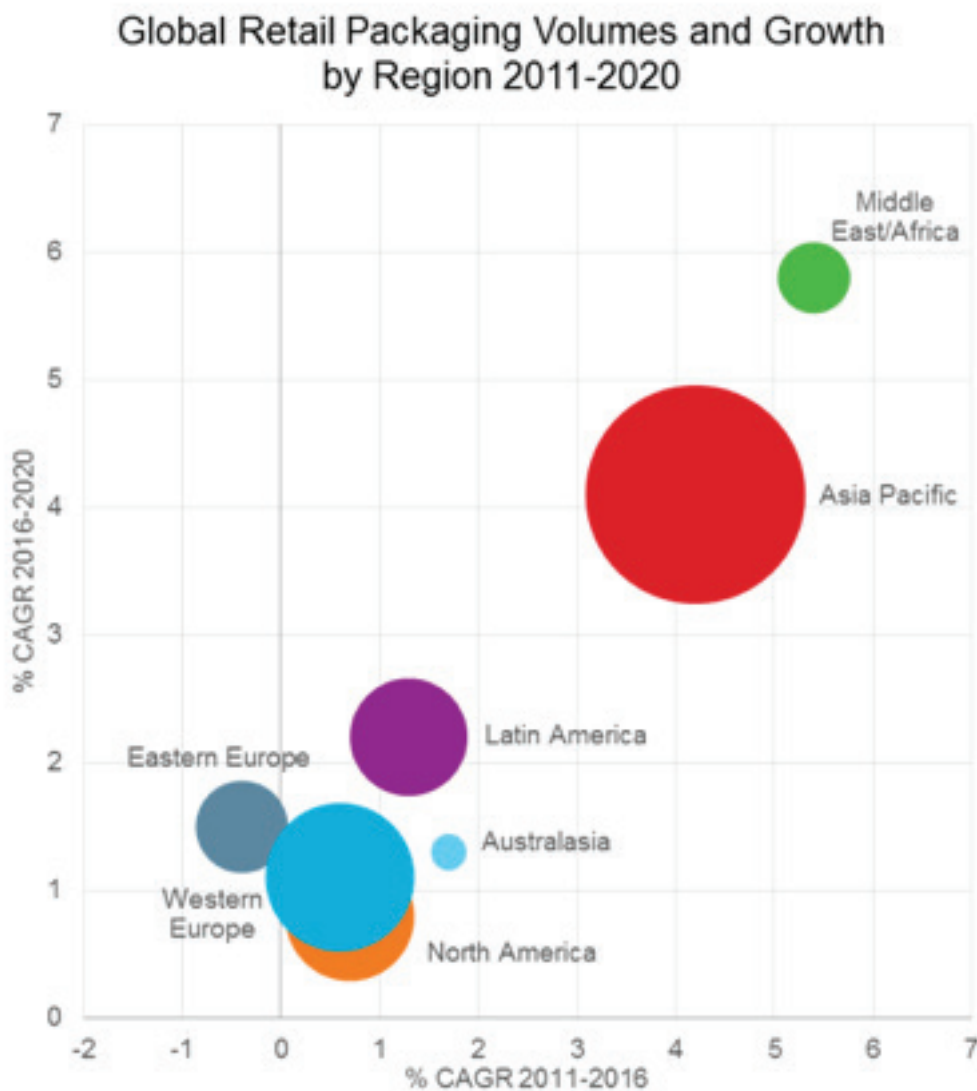
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Auspouch is a brand of Metalprint Australia, a leading supplier of packaging systems such as the Cheerpack spouted pouch for 2 decades.

VOLUMES AND GROWTH BY REGION BETWEEN 2011-2020



Source: Euromonitor International

More mature markets, such as Western Europe and North America, are seeing slower yet positive packaging volume growth. Although recycling is more developed, with Scandinavia being a good example, waste is often generated further downstream in the supply chain; such as at end consumption stage, and can still sometimes end up in the environment; or alternatively its incineration results in the emission of toxic waste.

A LONG-TERM, HOLISTIC APPROACH TO SUSTAINABILITY

Packaging only represents part of the entire ecological footprint of a business. With the World Economic Forum 2017 restating the global need to shift to a circular economy, manufacturers and retailers need to look at their overall activities and processes. Ranking systems such as the widely recognised Dow Jones Sustainability Index assess a group's corporate sustainability. The creation of long-term value, involving the least natural resources possible, is increasingly in focus.



The annual joint meeting of the Australian Institute of Packaging (AIP) and the Society of Plastic Engineers (SPE) took place at Box Hill in April and attracted nearly ninety industry folk to participate in a panel discussion forum. Richard Fine MAIP, Founder and Sustainability Director from BioPak, Mark Jacobsen, Marketing Director at Replas, Sean O'Malley, Research and Technical Manager of Planet Ark and Kurt Palmer, Director Australian Industrial Ecology Network were the brave professionals from the industry that fronted up to address questions without notice from the floor.

The basic setting was to discuss the issues around recycling packaging materials with a particular emphasis on the rudiments of China's restriction on the importation of waste material. It became obvious that Australian Governments, industry and the general population have been caught with their pants down. The curtailment of acceptance of our waste plastics had been flagged over a year before we realised that our pants were slipping. In fact astute managers were conscious of the looming crisis for the last two decades. Those who raised the issue met with the comment "they will never do that!"

Dr Carol Kicullen-Lawrence PhD, FAIP National President of AIP became the speaker of our assembled parliament and led the discussion with leading and supplementary questions for each panel member. The session was then opened up to questions from the floor and general retorts from the wise and educated.

First concern was about food and organic collections and developments in that arena. Richard Fine MAIP explained that there are major concerns across the country as most councils are reluctant to make decisions, although over five million tonnes of organic waste goes to landfill. Compostable take away coffee cups, contrary to media reports are both recyclable and compostable; investment needs to be made in the collection and recycling infrastructure

Richard says that composting is the best solution for foodservice disposables, for this packaging contaminated with food waste is ideally suited for composting, simplifying the disposal of food and packaging into one bin.

Kurt Palmer was asked to discuss the specifics of Materials Recycling Facilities (MRF) in the area of separating more specific polymers from the co-mingled waste. He explained that the lesser volumes of the exotic polymers are hard to profitably separate and collect, but there is technology available. The removal of black plastics in packaging will not improve the quality of the recovered polymer but will up the quantity.

Sean O'Malley was referred to a previous response and had coffee cups again on his radar. The waste hierarchy represents a great model for the coffee cup where a reusable model is better than a single use one. Planet Ark would like consumers to have their own cup and reuse it and for consumers to be informed how simple actions bring about positive changes. There are still occasions when the single use coffee cup will be used and we need to develop the programs to encourage the correct behaviours and systems for recycling.

The Australasian Recycling Label (ARL) is a partnership between Australian Packaging Covenant (APCO), Planet Ark and PREP Design, and will clearly outline for consumers what to do with their packaging, what can be recycled and how; and what can't. Sean said it is continually evolving and encouraged members to get involved and highlight their concerns and possible solutions.

Mark Jacobsen was hit with the question about recycling PVC content of mixed polymers. PVC is relatively easy to recycle - if it can be recovered in sufficient quantities and quality, but unless there is an end market then collection is a waste of time; needs to be demand for the end recycled product! The company mixes single polymers with other products according to the particular recipe for a new material.

It is feared that recycling could disappear in Australia unless we pull our pants back up and invest in the future. The Victorian Government has allocated \$13million to investigate possibilities; Canberra Council has entered into what is called the 'Closed Loop'. This is a follow on from experience with Red Group where collected material is remade into new material and returned to the source. Canberra Council will buy back the same mass of bollards or similar as was sent as predetermined comingled waste.

General questions from the assembly were solicited by our roving Emcee Anthony Peyton MAIP.

Q. How do we get governments of all persuasions involved?

A. Right now is the biggest opportunity to get Governments involved. But "measure before you manage" was the warning message.

Q. Experience with food services recycling operations.

A. There are commercial compost facilities available in every state. We need more green waste bins in public places. Recycling organics is commercially viable and demand from agriculture for nutrient rich compost exceeds supply

On the issue of clean plastic were learnt about an abattoir in Victoria that takes bloodied and soiled plastic wrapping and dry cleans it for further use. Plastic Forests operates a unique dry cleaning process which takes contaminated PE plastic films, which are not currently recycled from post food production streams & post-agricultural waste, turning that waste film into a range of recycled plastic products.

Q. Are we adopting European standards and practices?

A. Basically we are in tune. Plastic bags were the most visible pollutant which led to the withdrawal of shopping units. Now it is other eating aids that consumers discard. Straws and plastic containers are used for 20 minutes but pollute for a lifetime. Irrespective we need to get more recycled product into packaging. PET bottles are now being returned as virgin grade and other materials have the same capabilities. We need to redesign and rethink the material selection for a number of single use products in order to optimise functionality and durability.

Q. How does Australia stack up globally in minimisation of packaging for food?

A. There is evidence that consumers are raising issues of over packaging and wasteful practices.

The wealth of experience within the assembly was clearly demonstrated when segments rather than specific questions were delivered. All were positive but those with differing opinions were not backward in coming forth.

Replas have enough spare capacity to manufacture twice as much material but the lack of orders for recycled products is the main issue. The consumer is becoming more understanding of the need to be more environmentally conscious, witnessed by 10,000 hits in one day after the airing of 'War On waste' on RED Group' social media. Advice was delivered that New Zealand used to send PET bottles to China and import the chipped recycle. A decision to process the discarded bottles at home has morphed into a profitable new industry. Jeff Egan MAIP (JMP Holdings) advised about a specialised pyrolysis and distillation technology to convert waste plastics into liquid hydrocarbon fuels.

He stated we must be open to all the options when dealing with a problem the size of the one we have today. If the collection system breaks down because China locks us out, then we have to come up with alternatives to deal with the waste that is building on our back door every day. 24 tonnes of reclaimed plastic per day will return you 9 million litres of high quality diesel over one year. Jeff's calculations indicate a good return on investment. This type of operation can be run in conjunction with all the other recycled programmes that Replas and others are doing very successfully.

Han Michel MAIP (E-three and associates) seized the floor and delivered a passionate address which called for more changed behaviour. He stated that for any problem there is a solution and Australia has not been as proactive as some European countries. Han's mantra was make something new don't just recycle. On the issue of reuse of recycled materials Ralph Moyle FAIP (Packaging Solutions with Ralph Moyle) advised that the Therapeutic Goods Administration forbids the use of recycle material in any container that has direct contact with the contents. He also reminded us about the migration of mineral oils into breakfast foods from both plastic bags and the fibreboard outers.

The Red Group scheme with the supermarkets has educated the next generations about the need to recycle, but schoolchildren taking scrunched plastics to the store are not sustainable long term. Kerbside collection has to be introduced and advertised to make the closed loop a reality. China was taking 1.25 million tonnes of recycling material each year, we desperately need to find alternatives otherwise councils will be stock piling and charging rate payers. What if they took the easy way out and said we will drop offering the yellow bins, just place all waste into the one bin?

Anyone who was paying attention would understand that the opportunities in Australia to develop new industries to take up the tasks that China was doing for their own benefit over the years are ripe for the picking. A good marketer who does not have a market will go and start one, so a good packaging person can seek to fill the numerous opportunities. Muthu Pannirselvan (SPE program chair) representing SPE, on behalf of both groups thanked the presenters and the members for participating in a memorable event.

Michael B Halley FAIP





Since supplying French customer, **Domaine Laroche** with a new labeller several years ago, **Sacmi** has now installed a new **LVS360** label inspection system directly on to a second filling line at Laroche.

The system performs ultra-precise control label position and orientation verification and can detect any type of defect, from macro errors (presence-absence, incorrect or mixed applications) down to faults such as small creases, bubbles, colour variations or printing errors. SACMI is the world's first company to equip its inspection systems with image acquisition units with resolutions of up to 5 megapixels (a system total of 20 MP, using 4 colour cameras), which guarantees 100% inspection. Equipped with advanced hardware and software, the LVS360 reconstructs a 2D version of the 3D image captured by the cameras.

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NEW MEMBERS

The AIP would like to welcome the following new Members.

NAME	STATE	GRADE
Min Dodds	NSW	Associate
Aaron Ho	New Zealand	Associate
Bill Verhagen	VIC	Member
Jeremy Kavnoudias	VIC	Member
Ruwani Arachchi	New Zealand	Associate
Tuti Buntaran	Overseas	Member
Peter Nutter	QLD	Member
Olivier Clement	NSW	Member
Aaron Lusch	QLD	Member

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