

## Draft Program

### Sunday 12<sup>th</sup> August 2018

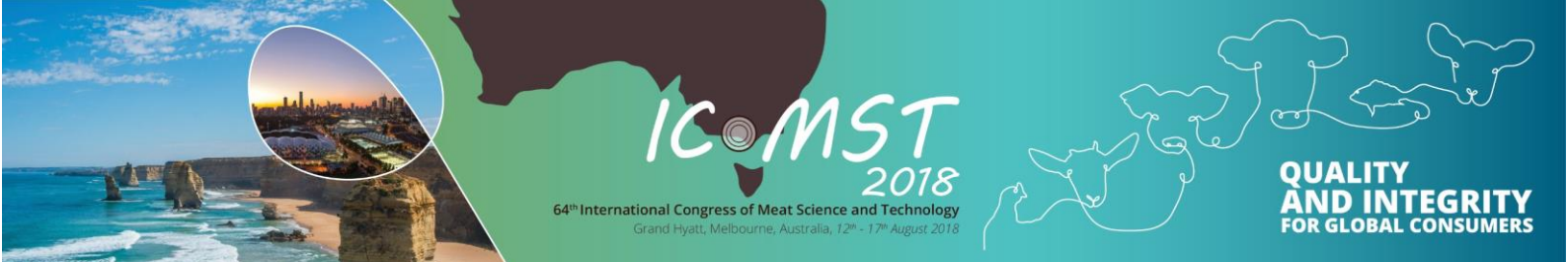
1500	<i>Registration open</i>	Level 8, Grand Hyatt
1530 – 1730	<b>Preconference Symposiums</b>	<b>Savoy Ballroom</b>
1800 – 2000	<b>Welcome Reception</b>	<b>Level 8, Grand Hyatt</b>
	<i>Meat supplied by Sunpork</i>	

### Day 1: Monday 13<sup>th</sup> August 2018

0730	<i>Registration open</i>	Level 8, Grand Hyatt
0830 – 0900	<b>Official Opening</b>	<b>Savoy Ballroom</b>
	<i>Chair: Robyn Warner and Frank Dunshea</i>	
	<b>Session 1: Provenance and fraud detection</b>	<b>Savoy Ballroom</b>
0900 – 0945	Meat provenance: determination of geographical origin and dietary background of meat (plenary review)	<b>KEYNOTE:</b> Frank Monahan, Ireland
0945 – 1015	Analyses of drivers in Australian and Chinese markets for Beef and Pork	<b>KEYNOTE:</b> Hollis Ashman, Australia
1015 – 1025	Chinese perceived trust of security elements applied to Australian red-meat packaging	Caroline Francis, Australia
1025 – 1035	Comparison of Laboratory and Human Sensory Analysis of Meat (Beef) Textural Properties	Nelum Pematilleke, Australia
1035 – 1100	<i>Morning Tea</i>	



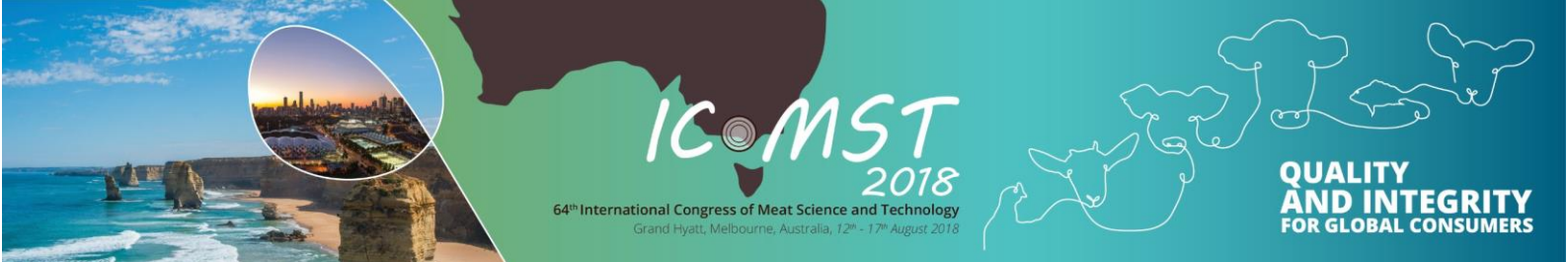
Session 2: Free papers			MSA Forum - How Australia's red meat industry has adopted eating quality science
1100 – 1110	Pre-slaughter hide washing affects meat quality in pasture finished cattle	Farrah Preston, Australia*	
1110 – 1120	Antioxidant supplementation is ineffective to reduce the frequency of PSE-like zones in pork hams	Antoine Vautier, France	
1120 – 1130	Red grape pomace: a natural antioxidant-rich supplement in lamb diets	Cletos Mapiye, South Africa	
1130 - 1140	Carcass chilling method and electrical stimulation effects on meat quality and color in lamb	Maggie Mickelson, USA*	
1140 - 1150	Understanding of beef tenderness variability based on the continuum data using Chemometrics: A proof-of-concept study	Mohammed Gagaoua, France*	
1150 – 1200	Effects of mitochondrial function on beef color stability during early postmortem	Xin Li, China	
1200 – 1210	New freshness index, method and device to determine freshness status of meat and fish	Tõnu Püssa, Estonia	
1210 – 1220	Betaine ameliorates the impact of heat stress in broilers, improving breast muscle growth and reducing drip loss	Majid Shakeri, Australia*	
1220 – 1230	Common factor analysis of pork loin quality from chops cooked to 63°C.	Brandon Fields, USA	
1230 - 1330	<i>Lunch</i>		
Session 3: Food Safety and Microbiology			
<i>Session Sponsor: Elanco Australia</i>			
1330 – 1400	The role of meat in foodborne disease: Is there a coming revolution in risk assessment and management?	<b>KEYNOTE:</b> Narelle Fegan, Australia	
1400 – 1430	The evolution of sophistication in food safety management and public health	<b>KEYNOTE:</b> Keith Belk, USA	
1430 – 1440	Optimization of the electrical parameters of a new generation medium voltage stimulator in a Chinese abattoir	Yimin Zhang, China* -	
1440 - 1450	Control of microbial stability using vegetable ingredients (raddish, onion, garlic) in a processed meat product with reduced sodium levels	Mauricio Redondo -Solano, Costa Rica	
1450 – 1500	Microbiological and sensory evaluation of different types of meat from beef carcasses treated with lactic acid	Brice Minvielle, France	
1500 – 1510	Impact of feeding stage, cattle source, and season on salmonella prevalence in bovine lymph nodes	Ashley Arnold, Texas*	
1510 – 1520	Comparing fecal and meat resistomes in USA beef, pork, and broiler production.	Margaret Weinroth, USA	
1520 - 1620	<i>Poster session and afternoon tea</i>		



**Session 4: Free Papers**

1620 - 1630	Hydrodynamic shockwave treatment of meat for accelerated tenderisation and aging	Roman Buckow, Australia	
1630 - 1640	Vitamin E concentration in alpaca meat and its impact on oxidative traits during retail display	Melanie Smith, Australia*	
1640 -1650	Biochemical changes in 140-day stored vacuum packaged chilled beef and potential shelf-life markers	Damian Frank, Australia	
1650 - 1700	Investigation of exopolysaccharide-producing strains in fat-reduced spreadable raw fermented sausage	Jonas Hilbig, Germany*	
1700 - 1710	Effect of the addition of Brosimum gaudichaudii and Pyrostegia venusta hydroalcoholic extracts on the oxidative stability of beef burgers	Renata Macedo, Brazil	
1710 - 1720	Tenderizing effects of protease extract from Solanum dubium seed in longissimus muscle from Sudanese beef cattle	Ahmed Biraima, South Africa*	
1720 - 1730	Exploring snacking behaviour of elderly for development of concept meat products	Behannis Mena-Chalas, Australia*	

**MSA 20<sup>th</sup> Anniversary Celebration, Grand Hyatt**



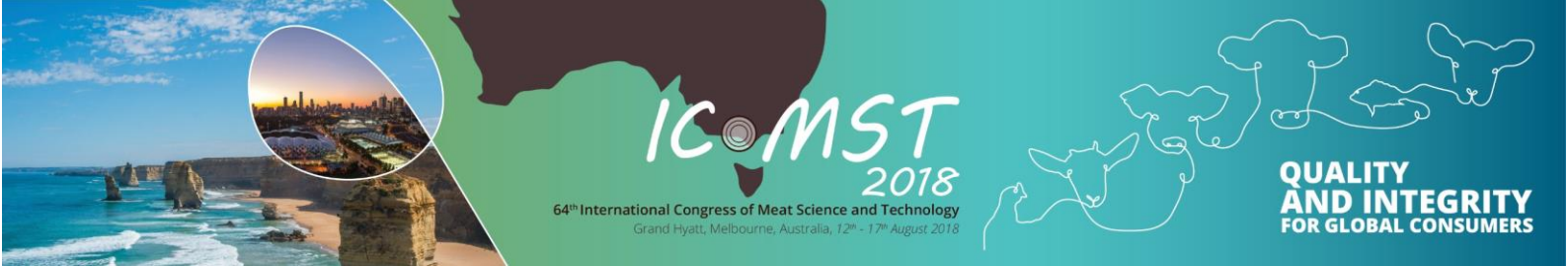
**Day 2: Tuesday 14<sup>th</sup> August 2018**

0800	<i>Registration open</i>	
	<b>Session 5: Revolution in biometrics and consumer sensory sciences</b>	
0830 – 0900	Novel approaches to understand sensory and consumer responses toward food products: A review with a focus on meat	<b>KEYNOTE:</b> Damir Torrico, Australia
0900 – 0930	Understanding eating quality and consumer responses across various	<b>KEYNOTE:</b> Liselotte Pannier, Australia
0930 – 1000	Understanding the effect of healthy trends on the aroma of wet and dry cured meat products	<b>KEYNOTE:</b> Monica Flores, Spain
1000 – 1010	Consumer acceptability of meat from lambs fed different pre-slaughter diets	Rufielyn Gravador, Ireland*
1010 – 1020	Chinese consumer assessment of sheep meat in traditional hotpot: the role of muscularity and intramuscular fat %.	Rachel O'Reilly, Australia*
1020 – 1030	Consumer response to eating quality of ovine and bovine meat and demographic effects	Melindee Hastie, Australia
1030 - 1100	<i>Morning Tea</i>	
	<b>Session 6: Value adding to meat and offal</b>	
1100 - 1130	Opportunities and perspectives for meat industry co-products utilisation	<b>KEYNOTE:</b> Carlos Alvarez, Ireland
1130 - 1200	Understanding postmortem biochemical processes and post-harvest aging factors to develop novel smart-aging strategies	<b>KEYNOTE:</b> Brad Kim, USA
1200 – 1210	DMHF generated from the maillard reaction in cooked meats promotes appetite.	Issei Yokoyama, Japan*
1210 – 1220	Effects of combining PEF treatment and drying conditions on conjugated linoleic acid and lipid oxidation of NZ venison	Tanyaradzwa Mungure, New Zealand*
1220 – 1230	A novel functional food material prepared from collagen-derived peptides by the maillard reaction	Keizo Arihara, Japan
1230 - 1330	<i>Lunch</i>	
	<b>Session 7: Next generation technologies to assess carcass and meat quality</b>	
1330 – 1400	Use of DXA to determine lean meat yield in a commercial setting	<b>KEYNOTE:</b> Graham Gardner, Australia
1400 – 1430	Chemometrics and hyperspectral imaging/NIR imaging	<b>KEYNOTE:</b> Marlon dos Reis, New Zealand
1430 – 1440	Marbling score versus intramuscular fat % as predictors of beef eating quality	Sarah Stewart, Australia*
1440 – 1450	Online CT for assessment of meat quality	Lars Bager Christensen, Denmark*



1500 - 1600 <i>Poster session and afternoon tea</i>		
<b>Session 8: Free Papers</b>		
1600 – 1610	Assessment of meat eating quality characteristics of beef m. Longissimus thoracis et lumborum by way of raman spectroscopy	Jamie Cafferky, Ireland*
1610 - 1620	Estimation of meat tenderness using visible-near-infrared spectroscopy	Tharcilla Alvarenga, Australia*
1620 – 1630	Analyzing intramuscular fat content in pork longissimus lumborum using Raman spectroscopy	Petter Anderson, Norway*
1630 – 1640	Towards an automated pork belly system based on degree of firmness	Manuel Juarez, Canada
1640 – 1650	Metabolomics profiling of meat exudate to understand the impact of postmortem aging on oxidative stability of beef muscles	Derico Setyabrata, USA
1650 – 1700	Towards a Pan-European computed tomography procedure for determining the new EU lean meat content of pigs	Gerard Daumas, France

**Networking Function, Grand Hyatt**



**Day 3: Wednesday 15<sup>th</sup> August 2018**

0800 *Technical and Scenic Tours (please refer to the website for further information)*

**Tour 1: Beef - Gippsland**

**Tour 2: Beef - Brooklyn**

**Tour 3: Food Technology - Mornington Peninsula**

**Tour 4: Food Technology - University of Melbourne**

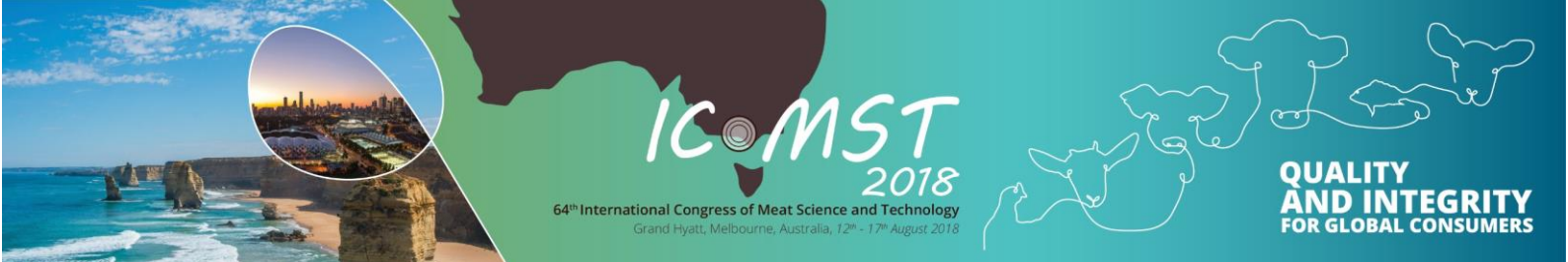
**Tour 5: Dookie / Sheep**

**Tours 6: Pork / West**

**Tour 7: Melbourne Walking Tour**

**Free Evening to enjoy some of the local restaurants**

**Please note that you must be pre-registered for the tours. Places are limited.**



## Day 4: Thursday 16<sup>th</sup> August 2018

0800	<i>Registration open</i>	
	<b>Session 9: Glycolytic and proteolytic metabolism across species</b>	
0830 – 0900	On farm factors increasing dark cutting in pasture finished beef cattle	<b>KEYNOTE:</b> Peter McGilchrist, Australia
0900 – 0930	Postmortem glycolysis in pigs and lessons from other species	<b>KEYNOTE:</b> Eric England, USA
0930 – 1000	Contribution of collagen and connective tissue to cooked meat toughness; some paradigms reviewed	<b>KEYNOTE:</b> Peter Purslow, Argentina
1000 – 1030	Contribution of nitric oxide and protein S-nitrosylation to variation in fresh meat quality	<b>KEYNOTE:</b> Wangang Zhang, China
1030 - 1100	<i>Morning Tea</i>	
	<b>Session 10: Free papers</b>	
1100 – 1110	Can pre-slaughter stress blood indicators be used to predict dark cutting in lambs?	Thuthuzelwa Stempa, South Africa*
1110 – 1120	Sarcoplasmic protein profile as a predictor of aged pork loin tenderness	Matt Schulte, USA*
1120 – 1130	Inhibition of cathepsins reduces longitudinal shrinkage and prevents transversal swelling during heating of semitendinosus muscle fiber fragments.	Rozita Spirovska Vaskoska, Australia*
1130 – 1140	Light scattering in beef longissimus muscle is mainly generated by shrinkage of the myofilament lattice, myofibrils & muscle fibres	Joanne Hughes, Australia
1140 – 1150	Metabolomic investigation of tenderness and aging response in beef longissimus steaks	Tommy Wheeler, USA
1150 – 1200	Effect of pulsed electric field on the calpain activity and proteolysis of beef semimembranosus muscle	Zuhaib Bhat, New Zealand
1200 – 1210	Meat metabolome of nellore bulls with divergent genetic potential for growth	Nara Regina Brandão Cõnsolo, Brazil*
1210 – 1220	Consumer acceptability of bison steaks treated with oregano and rosemary essential oils	Vipasha Sood, Canada*
1220 – 1230	Effect of electrical stimulation on beef carcass during the maturation period under commercial conditions in Uruguay	Caterina Rufo, Uruguay
1230 - 1330	<i>Lunch</i>	
	<b>Session 11: Smart packaging for quality, safety and integrity</b>	
1330 – 1400	Boosting Meat Quality and Safety by Packaging Innovation	<b>KEYNOTE:</b> Mari Ann Tørngren, Denmark
1400 – 1430	Meat packaging solutions to current industry challenges: A review	<b>KEYNOTE:</b> Benjamin Holman, Australia
1430 – 1440	The potential role of nitrite-embedded film in extending the color stability and shelf life of a cured, cooked meat product	Michael Cropp, USA*
1440 – 1450	The oxygen concentration required in modified atmosphere packaging to maintain meat colour over retail display	Maddison Corlett, Australia*
1450 – 1500	Film-forming properties and structure characterization of edible bones collagen-chitosan blend film	Dequan Zhang, China



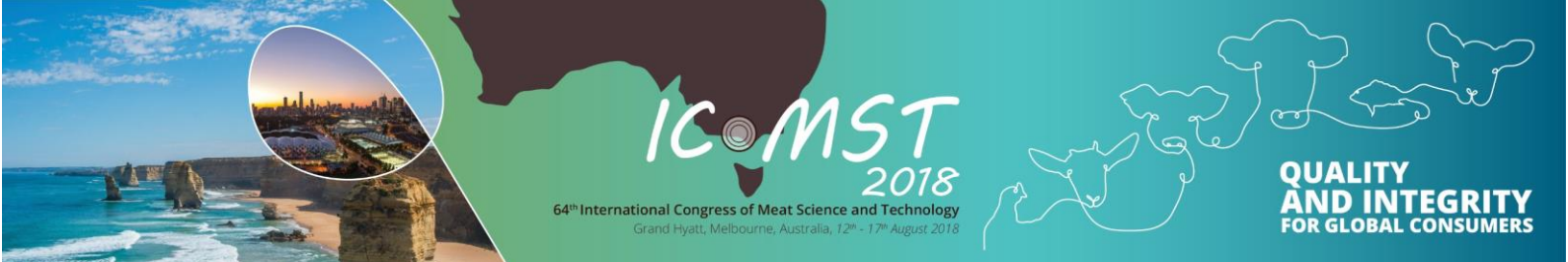
1500 - 1600 *Poster session and afternoon tea*

**Session 12: Free Papers**

1600 – 1610	The effect of shockwave processing on muscle protein structure and digestibility in vitro	Feng Ming Chian, New Zealand*
1610 – 1620	Sensory texture analysis of marinated and non-marinated wooden breast fillet portions	Hong Zhuang, USA
1620 – 1630	The role of moisture evaporation on flavor precursors and taste of dry-aged beef	Hyun Jung Lee, Korea*
1630 – 1640	The effect of muscle source on ground beef flavor and texture	Devin Gredell, USA*
1640 – 1650	Consumers assessment of beef steaks of varying hanging methods and ageing times	Jean-François Hocquette, France
1650 – 1700	Effect of inoculation ratio of mold and yeast on beef sirloin during dry aging	Seonjin Kim, Korea*

**Social Function: Gala Dinner – Plaza Ballroom, Queen Victoria Theatre**  
*Meat supplied by Rivalea*





## Day 5: Friday 17<sup>th</sup> August 2018

0830	<i>Registration open</i>	
	<b>Session 13: Dietary muscle proteins for stage of life</b>	
0900 – 0930	A brief history of meat in the human diet and current health implications	<b>KEYNOTE:</b> Neil Mann, Australia
0930 – 1000	Dietary meat and protection against sarcopenia	<b>KEYNOTE:</b> Gordon Lynch, Australia
1000 – 1010	Feeding camelina for heavy lamb and hogget production: carcass traits, composition and meat quality	Eric Ponnampalam, Australia
1010 – 1020	Effect of caraway ( <i>Carum carvi</i> L.) essential oil addition on masking boar taint in cooked pork sausage	Igor Tomasevic, Serbia
1020 - 1100	<i>Morning Tea</i>	
	<b>Session 14: Process control in the meat industry</b>	
	<i>Session Sponsor: Zoetis</i>	
1100 – 1130	Development of a pork eating quality model	<b>KEYNOTE:</b> Heather Channon, Australia
1130 – 1200	Current and future commercial high volume prospects for carcase to cook traceability	<b>KEYNOTE:</b> Sean Starling, Australia
1200 – 1210	Quality and consumer acceptability of in-bag dry- and wet-aged lamb	Mustafa Farouk, New Zealand
1210 – 1220	Inhibition of heterocyclic aromatic amines with cinnamon and Chinese prickly ash for roasted meat	Zhenyu Wang, China
1220 – 1330	<b>Summary / close followed by Lunch</b>	

### Footnotes:

- 30 min keynotes are to be strictly 23 minute papers with 7 minutes for questions.

- short papers 10 min papers strictly 7 minutes plus 3 minute questions.

\* - denotes young scientist who has nominated to be considered for Meat Science Award