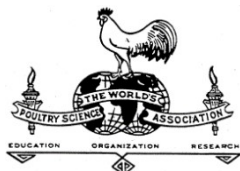




In conjunction with:



2025 AUSTRALIAN POULTRY SCIENCE SYMPOSIUM PROGRAM

February 10th - 12th 2025

UNIVERSITY OF SYDNEY - ABERCROMBIE BUSINESS SCHOOL

DAY 1: Monday 10th February 2025

- 9.00- **REGISTRATION**
12:00 **Level 2 Concourse, University of Sydney - Abercrombie Business School**
- 9.30- **MORNING TEA**
10:30 **Level 2 Concourse, University of Sydney - Abercrombie Business School**
- 10:00- **Student/Industry “Meet and Greet”**
12:00 Mentors will be invited from relevant industry sectors and early career researchers that attend APSS 2025 will be encouraged to attend the networking function. Professors Roura, Choct and Crowley will do an introduction at the beginning of the session and then encourage mentors and mentees to engage in activities and conversations for the rest of the session.
- 12:00- **LUNCH**
13.00 **Level 2 Concourse, University of Sydney - Abercrombie Business School**
- 13.00- **OPENING OF THE SYMPOSIUM**
13.15 **Lecture Theatre, Basement Level, University of Sydney - Abercrombie Business School**

The president of the PRF, Lisa Jamieson welcomes the audience and introduces Professor Kathy Belov, Pro Vice-Chancellor (Global and Research Engagement), The University of Sydney to open the symposium

PROTEIN AND WATER – TWO KEY DRIVERS FOR SUSTAINABLE POULTRY PRODUCTION

Session 1 Chair: Prof. Mingan Choct - University of Sydney, Australia

- 13.15-13.55** WORLDWIDE WATER SCARCITY – WE ARE ALL IN IT TOGETHER
Prof. Walter Bottje - University of Arkansas, USA
- 13.55-14.05 EFFECT OF PROCESSING METHODS ON THE QUALITY DETERMINANTS OF CANOLA MEALS
Ms Sin Nee Ng - Soon Soon Oilmills Sdn Bhd, Malaysia
- 14.05-14.15 COMBINATION OF CONSENSUS PHYTASE, CARBOHYDRASE ENZYMES AND BACILLUS BASED PROBIOTICS IMPROVES BROILER PERFORMANCE WHEN LOW ENERGY AND AMINO ACID DIETS ARE FED
Dr Amir Ghane - Danisco Animal Nutrition and Health -IFF, Singapore
- 14.15 - 14.55** PROMOTING RESILIENCE: SUSTAINABLE PROTEIN ALTERNATIVES AND LOW-PROTEIN DIETS FOR CHICKEN-MEAT PRODUCTION
Assoc. Prof. Sonia Liu - The University Of Sydney, Australia
- 15.00-15.30 **AFTERNOON TEA**
Level 2 Concourse, University of Sydney - Abercrombie Business School

BROILER NUTRITION: BUILDING RESILIENCE OF THE YOUNG GUT

Session 2 Chair: TBA

- 15.30-16.10** PRIMING YOUNG BIRDS FOR GUT HEALTH AND RESILIENCE
Dr Mike Bedford - AB Vista, UK
- 16.10-16.20# THE GOBLET CELL POPULATION INCREASES FROM THE DUODENUM TO THE ILEUM IN BROILER CHICKENS
Miss Francisca Diaz-Aviles - University of Queensland, Australia
- 16.20-16.30# XYLO-OLIGOSACCHARIDES: ARE YOU GETTING WHAT YOU PAID FOR?
Mr Andrew Wallace - University of New England, Australia
- 16.30-16.40 REPLACING DIETARY SUPPLEMENTED L-ARGININE WITH GUANIDINOACETIC ACID AND L-CITRULLINE IMPROVES FEED CONVERSION RATIO OF BROILER CHICKENS
Dr Reza Barekatain - SARДИ, Australia
- 16.40-16.50 CAECUM BACTERIAL COMMUNITIES RESPOND TO DIETARY GRAIN TYPE AND CRUDE PROTEIN LEVELS AND CORRELATE WITH BROILERS' GROWTH
Dr Jiasui Li - The University of Sydney, Australia
- 16.50-17.00# USING PROTEOGENIC AMINO ACIDS TO MODULATE PATHOGENIC BACTERIAL GROWTH IN THE INTESTINAL MICROBIOME OF BROILER CHICKENS
Mr. David Chau - The University of Queensland, Australia

Student presentations



17.00- **SPECIAL PRESENTATION BY DIAMOND SPONSOR DSM -**
17.20 **INCORPORATING AN ESSENTIAL OIL AND SAPONIN BLEND AS**
PART OF AN EFFECTIVE COCCIDIOSIS MANAGEMENT PROGRAM
Dr Shelby Ramirez - dsm-firmenich, USA

17.30- **POSTER SESSION inc. DINNER & DRINKS –**
20.00 **The Poster Room (Seminar Room 2130), Level 2, University of Sydney**
- Abercrombie Business School

POSTERS:

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DAY 2: Tuesday 11th February 2025

7:00- **REGISTRATION FOR LATE OR TUESDAY ONLY REGISTRANTS**
8:30 **Level 2 Concourse, University of Sydney - Abercrombie Business School**

7:00- **Adisseo Breakfast Seminar**
8:30 By invitation only.



8.25- **DAY 2 OPENING ADDRESS**
8.30 **Lecture Theatre, Basement Level, University of Sydney - Abercrombie Business School**

BROILER NUTRITION - FEED ADDITIVES AND GUT HEALTH

Session 3 Chair: Dr Reza Barekattain - SARDI, Australia

8:30- 9:10 IMPACT OF PAST, PRESENT, AND FUTURE FEED ADDITIVES ON THE GUT ECOSYSTEM ON PRODUCTIVITY OF YOUNG CHICKS
Dr Michael Kogut - USDA-ARS, USA

9:10- BENEFICIAL IMPACT OF A COMMERCIAL TRIPLE-STRAIN BACILLUS-BASED PROBIOTIC ON CECAL COLONIZATION OF SALMONELLA ENTERITIDIS IN CHALLENGED LAYER PULLETS
9:20 *Mr Antoine Meuter - Novonosis, France*

9:20- A DOSE-RESPONSE STUDY WITH ARGININE IN OVO FEEDING SHOWS
9:30# SIGNS OF TOXICITY BEYOND 60 mg/egg IN BROILER CHICKENS
Ms. Nadeera Disanayaka - The University of Queensland, Australia

9:30- INVESTIGATION OF THE DIETARY SUPPLEMENTATION OF LAURIC AND
9:40 BUTYRIC ACID GLYCERIDES ON THE PERFORMANCE, INTESTINAL GROSS LESIONS AND CECAL MICROBIOTA IN A SUBCLINICAL NECROTIC ENTERITIS CHALLENGE MODEL IN BROILER CHICKS
Dr Bing Guo - Adisseo, Singapore

9.40- BUTYRIC AND VALERIC GLYCERIDES BLEND PREVENTS ADVERSE
9.50# IMPACTS OF EIMERIA CHALLENGE ON PERFORMANCE AND REDUCES OOCYST LOADS IN BROILER CHICKENS
Mr Sm Mostafizur Rahaman Sumon - University of New England, Australia

9.50- INFLUENCE OF BACILLUS SUBTILIS PROBIOTIC ON GUT INTEGRITY AND
10.00# GENE EXPRESSION IN BROILERS
Mr Darwin Horyanto - CQU/Bioprotein, Australia

10.00- EVALUATING DIFFERENT APPLICATION STRATEGIES OF A SAPONIN-
10.10 ALUMINOSILICATE BLEND IN BROILERS CHALLENGED WITH EIMERIA
Dr. Madri Brink - Orffa Additives BV, Belgium

10.10- EFFECTS OF QUILLAJA AND YUCCA COMBINATION PRODUCT AT
10.20 DIFFERENT INCLUSION LEVELS AND DURATION OF USE IN BROILERS SUBJECTED TO INTESTINAL CHALLENGE MODEL
Dr. Vasil Stanev - Phibro Animal Health SA, Belgium

10.30- **MORNING TEA**
11.00 **Level 2 Concourse, University of Sydney - Abercrombie Business School**

Student presentations

BROILER AND BREEDER NUTRITION

Session 4 Chair: Prof. Eugeni Roura - University of Queensland, Australia

- 11.00-** RECENT ADVANCES IN BROILER BREEDER NUTRITION
11.40 *Dr Peter Chrystal - Aviagen Inc., New Zealand*
- 11.40- REDUCING DIETARY PROTEIN FROM 16 TO 12% DOES NOT HAVE A
11.50# NEGATIVE IMPACT ON BROILER BREEDER PERFORMANCE
Mr. Bipul Chandra Ray - The University of Queensland, Australia
- 11.50- TOWARDS AN IN VITRO DIGESTION MODEL BASED ON EX VIVO
12.00 ANALYSIS OF CHICKEN DIGESTA
Miss Xueping Jing - The University of Queensland, Australia
- 12.00- FEEDING METHIONINE HYDROXYL ANALOGUE CHELATED ZINC,
12.10 COPPER AND MANGANESE TO BROILER CHICKENS REDUCES MINERAL
EXCRETION
Dr Amy Moss - University of New England, Australia
- 12.10- COMPARING TRADITIONAL FORMS OF SUPPLEMENTAL COPPER TO A
12.20 MONOVALENT COPPER ON BACTERIA CONTROL
Alessandra Rigo Monteiro - Animine, France
- 12.20- THE USE OF COPRODUCTS TO MITIGATE THE ENVIRONMENTAL
12.30# FOOTPRINT OF BROILER CHICKEN PRODUCTION
Sekhou Cisse - Nor-Feed SAS, France
- 12.30- PROTEIN TURNOVER IN BROILER CHICKENS
12.40 *Dr Peter Selle - Poultry Research Foundation, Australia*
- 12.40- **LUNCH**
14.00 **Level 2 Concourse, University of Sydney - Abercrombie Business School**
- 13.00- **WPSA AGM**
14.00 **Seminar Room 2050, University of Sydney - Abercrombie Business School**

OPTIMISING EGG PRODUCTION

Session 5 Chair: TBA

- 14.00-** OPTIMIZING NUTRITION AND MANAGEMENT TO ENHANCE
14.40 PRODUCTIVITY IN MODERN LAYING HENS: FROM REARING TO PEAK
PRODUCTION
Mr Vitor Arantes - Hy-line International, USA
- 14.40- A COMPARISON OF HEN PERFORMANCE DURING AN EXTENDED LAYING
14.50 CYCLE BASED ON HEN BODY WEIGHT
Dr Wendy Muir - The University of Sydney, Australia
- 14.50- PERFORMANCE, EGGSHELL QUALITY AND BONE DENSITOMETRY OF
15.00 WHITE LAYING HENS SUPPLEMENTED WITH AMINO ACID-
COMPLEXED MINERALS FROM 78 TO 98 WEEKS OF AGE
Dr. Leonardo Linares - Zinpro Corporation, USA

15.00- NUTRITION AND FEEDING STRATEGIES IN EXTENDED EGG
15.40 PRODUCTION IN DIFFERENT PRODUCTION SYSTEMS
Assoc. Prof. Sanna Steinfeldt - University of New England, Australia

15.40- **AFTERNOON TEA**

16.10 **Level 2 Concourse, University of Sydney - Abercrombie Business School**

ALTERNATIVE FEED INGREDIENTS

Session 6 Chair: TBA

16.10- ALTERNATIVE INGREDIENTS TO REPLACE SOYBEAN MEAL IN
16.20 COMMERCIAL BROILER CHICKEN PRODUCTION
Dr Elham Assadi Soumeh - The University Of Queensland, Australia

16.20- NUTRITIONAL VALUE OF GRAIN LEGUMES COMPARED TO SOYBEAN
16.30# MEAL: STANDARDISED ILEAL DIGESTIBILITY
Mr. Obright Hamungalu - Massey University, New Zealand

16.30- USE OF FIELD PEAS AND NON-BOUND AMINO ACIDS IN BROILER DIETS
16.40# REPLACING SOYABEAN MEAL
Mr Milan Kandel - The University of Sydney, Australia

16.40- HIGH INCLUSION OF WHEAT DISTILLER'S DRIED GRAINS WITH
16.50 SOLUBLES IN BROILER CHICKEN DIETS
Dr Eunjoo Kim - The University of Sydney, Australia

EVALUATION OF APPARENT ILEAL AMINO ACID DIGESTIBILITY OF GUAR
16.50- KORMA MEAL IN MALE AND FEMALE BROILERS
17.00 *Mr Muhammad Asad Iqbal - University Rawalpindi, Pakistan*

18.00- **SYMPOSIUM DINNER**
22.30 **Sponsored by Shandong Longchang
Animal Health Product Co.,Ltd**



**Doltone House Darling Island, North Wharf
48 Pirrama Rd, Pyrmont NSW 2009**

Bus transfers have been arranged to leave 4 Points by Sheraton @ 6:15pm and 6:30 please meet in the foyer by 6:10pm or 6:25pm
Returning to 4 Points by Sheraton, departing Darling Island @ 10:00 and 10.30pm. Dress Code: Smart Casual



Student presentations

DAY 3: Wednesday 12th February 2025

8.00- **REGISTRATION FOR LATE OR WEDNESDAY ONLY DELEGATES**
8.55 **Level 2 Concourse, University of Sydney - Abercrombie Business School**

8.55- **DAY 3 OPENING ADDRESS**
9.00

DIETARY ENERGY RE-VISITED

Session 7 Chair: Prof. Shubiao Wu - University of New England, Australia

9.00- **THOUGHTS ON DIET ENERGY- DEFINITIONS, REQUIREMENTS AND**
9.40 **ALTERNATIVES**
Emer. Prof. Steve Leeson - University of Guelph, Canada

9.40- **COMPARATIVE EFFECTS OF LIQUID AND DRY APPLICATIONS OF A**
9.50 **COMBINATION OF LYSOLECITHIN, SYNTHETIC EMULSIFIER AND**
MONOGLYCERIDES ON GROWTH PERFORMANCE, PROFITABILITY AND
ENVIRONMENTAL IMPACT IN BROILERS FED DIETS OF DIFFERING
ENERGY DENSITY
Dr Alexandra Wealleans - Kemin Europa Nv, Belgium

9.50- **INTERACTIVE EFFECTS OF GRAIN AND FAT SOURCES ON GROWTH**
10.00# **PERFORMANCE OF BROILER CHICKENS WITH REDUCED**
METABOLIZABLE ENERGY IN STARTER AND GROWER DIETS
Mrs. Mengzhu Wang - The University of Sydney, Australia

10.00- **INTERACTIVE EFFECTS OF DIETARY NUTRIENT DENSITY AND BREED ON**
10.10# **GROWTH PERFORMANCE OF STRAIGHT-RUN BROILERS**
Ms Carria Xie - The University of Sydney, Australia

10.10- **EFFECT OF GLUCOSE OXIDASE ON PERFORMANCE OF BROILERS**
10.20# **FEEDING NORMAL AND LOW ENERGY DIETS**
Mrs Sharmin Akter - University of New England, Australia

10.20- **ENHANCING PRODUCTIVITY THROUGH NET ENERGY APPLICATION IN**
11.00 **BROILERS**
Dr. Pairat Srichana - Charoen Pokphand Group Co., Ltd., Thailand

11.00- **MORNING TEA**
11.30 **Level 2 Concourse, University of Sydney - Abercrombie Business School**

NUTRITION AND FOOD ADDITIVES

Session 8 Chair: Dr. Wendy Muir – University of Sydney, Australia

11.30- **PREVALENCE AND PREVENTION OF ENTEROCOCCUS AROUND THE**
12.10 **WORLD**
Prof. Martha Pulido Landinez - Mississippi State University, USA

12.10- **COMMENSALLY DELIVERED RECOMBINANT IMMUNITY AGAINST**
12.20 **ZOONOTIC BACTERIA IN CHICKENS**
Dr Meg Manohar - CSIRO, Australia

12.20- **EVALUATION OF INFLUENZA A VIRUS RESTRICTION BY DUCK TRIM**
12.30 **PROTEINS**
Dr Lee Campbell - The University of Sydney, Australia

12.30- DUST CHALLENGE MODEL TO TEST THE SUCCESS OF LIVE SALMONELLA
12.40 VACCINE
Dr Samiullah Khan - The University of Adelaide, Australia

12.40- VARIANT STRAINS OF IBV ARE STILL EMERGING IN VACCINATED LAYER
12.50 FLOCKS
Dr Jose A. Quinteros - The University of Sydney, Australia

12.50- MICROBIOME-HOST INTERACTION IN AVIAN PASTEURELLOSIS
13.00
Dr Yadav Bajagai - Central Queensland University, Australia

13.00- PATH MODELS FOR SPOTTY LIVER DISEASE
13.10
Dr Peter Groves - Poultry Research Foundation, Australia

13.10- REINFECTION OF CHICKENS WITH CAMPYLOBACTER HEPATICUS, THE
13.20 CAUSE OF SPOTTY LIVER DISEASE
Assoc. Prof. Thi Thu Hao Van - RMIT University, Australia

13.20- **LUNCH**

14.20 **Level 2 Concourse, University of Sydney - Abercrombie Business School**

WELFARE, ENVIRONMENT & AVIAN INFLUENZA

Session 9 Chair: TBA

14.20- EFFECT OF YEAST CELL WALL SUPPLEMENT ON BROILER CHICKENS
14.30 PERFORMANCE UNDER CHRONIC HEAT STRESS
Dr Alison Leary - Lallemand, Australia

14.30- COMPARISON OF LITTER, MOISTURE AND FRIABILITY SCORES TO
14.40 MOISTURE CONTENT
Dr Mark Dunlop - Department of Primary Industries, Australia

14.40- CATCHING METHOD DOES NOT IMPACT THE PRE-SLAUGHTER MORTALITY
14.50# OF MEAT CHICKENS
Miss Jarrah Ransome - University of New England, Australia

14.50- FEATHER-DIRECTED BEHAVIOURS ARE CONTEXT-SPECIFIC AND LIKELY
15.00 HAVE VARYING IMPACTS ON MEAT CHICKEN BREEDER WELFARE
Dr Peta Taylor - The University of Melbourne, Australia

15.00- AVIAN INFLUENZA IN AUSTRALIA – PAST, PRESENT AND FUTURE
15.40 ***Dr Frank Wong – CSIRO, Centre for Disease Preparedness, Australia***

STUDENT AWARDS AND CLOSING OF THE SYMPOSIUM

15.40- Mingan Choct Award for Best Oral Presentation presented by Prof. Tamsyn
16.00 Crowley - Poultry Hub Australia.

PRF Award for Best Student Poster presented by Assoc. Prof. Sonia Liu Final closing remarks and thank you to Sponsors and Media Partners by Professor Eugeni Roura - WPSA (Australian Branch)

15.00- **AFTERNOON TEA**

15.30 **Level 2 Concourse, University of Sydney - Abercrombie Business School**