



In conjunction with:



2024 AUSTRALIAN POULTRY SCIENCE SYMPOSIUM PROGRAM

February 19th – 21st 2024

SHERATON GRAND SYDNEY HYDE PARK

DAY 1: Monday 19th February 2024

9.00- 12:00 **REGISTRATION**
Outside Hyde Park Room, Level 2, Sheraton Grand Sydney Hyde Park

10.00- 11:00 **MORNING TEA**
@ Level 2 Concourse, Sheraton Grand Sydney Hyde Park

09:30- 11:30 **Meet and Greet**
Mentors will be invited from relevant industry sectors and early career researchers that attend APSS 2024 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.

11:45- 12:45 **BUFFET LUNCH**
@ Sydney Common Restaurant, Level 1, Sheraton Grand Sydney Hyde Park

13.00- 13.15 **OPENING OF THE SYMPOSIUM**
Grand Ballroom 1 & 2, Level 2, Sheraton Grand Sydney Hyde Park

Mr. Richard Browning – Vice President Poultry Research Foundation –
Acknowledgment of Country, Welcome to Delegates and Thank you to all
sponsors for APSS 2024

**Opening address by Professor Marcel Dinger, Dean, Faculty of
Science, The University of Sydney**

13.15- 13.30 **Tribute to the late Emeritus Professor Frank Annison:**
**A WISE MENTOR AND VISIONARY SCIENTIST: EMERITUS PROFESSOR E.F.
ANNISON** by Professors' Derick Balnave and Wayne Bryden
Professor Wayne Bryden - Honorary Governor, Poultry Research Foundation

MICROBIOME AND GUT HEALTH

Session 1 Chair: Prof. Robert Swick, University of New England

13.30-
14.15 INTESTINAL INTEGRITY AND INFLAMMATION: HOW DOES THIS AFFECT THE MICROBIOTA COMPOSITION AND WHAT IS THE RELEVANCE FOR PRODUCTION?

Prof. Filip Van Immerseel - Ghent University, Belgium.

14.15-
14.25# CONTROLLED COLONISATION OF GUT IN BROILERS UNDER COMMERCIAL HATCHERY SYSTEM

Mr. Advait Kayal - Central Queensland University, Australia.

14.25-
14.35 COMPETITIVE EXCLUSION IMPROVES THE PERFORMANCE OF BROILERS VACCINATED AGAINST COCCIDIOSIS

Dr Alison Leary – Lallemand, Australia

14.35 -
14.45 THE IMPACT OF A YEAST PROBIOTIC ON GUT MICROBIOTA IN BROILERS

Mrs Caitlin Vosloo- Phileo Lesaffre, France

14.45-
14.55 EFFICACY OF CLOPIDOL AND OTHER SYNTHETIC COCCIDIOSTATS IN FIELD CONDITIONS AGAINST *E. MAXIMA*

Mr. Karel Bierman- Huvepharma, Belgium

14.55-
15.25 **AFTERNOON TEA**

@ Level 2 Concourse, Sheraton Grand Sydney Hyde Park

MICROBIOME AND GUT HEALTH Continued

Session 2 Chair: Professor Eugeni Roura, The University of Queensland

15.25-
16.10 PARTICLE SIZE DISTRIBUTIONS AND STRUCTURAL FEATURES OF UNDIGESTED FEED AT THE JEJUNUM AND ILEUM OF CHICKENS

Emeritus Professor Mike Gidley -The University of Queensland, Australia

16.10-
16.20# COMPARING EFFECT OF A XYLOBIOSE-ENRICHED XYLO-OLIGOSACCHARIDE MIXTURE TO A COMMERCIAL XYLO-OLIGOSACCHARIDE MIXTURE ON BROILER CHICKEN PERFORMANCE

Mr Andrew Wallace -University of New England, Australia

16.20-
16.30 MICROBIOME MODULATION IN BROILERS THROUGH PROTEASE-MEDIATED FEED PROTEIN DIGESTION

Dr Alexandra Wealleans - Kemin Europa Nv, Belgium

16.30-
16.40 IN OVO DELIVERY OF OREGANO ESSENTIAL OIL ACTIVATES XENOBIOTIC DETOXIFICATION AND LIPID METABOLISM IN HATCHED IN BROILER CHICKENS

Dr Shahram Niknafs - The University of Queensland, Australia

16.40-
16.50# ENHANCING LAYING HEN PERFORMANCE AND GUT HEALTH IN HIGH-STRESS COMMERCIAL SETTINGS THROUGH TARGETED GLYCAN SUPPLEMENTATION

Mr Friedrich Petranji - DSM Nutritional Products Aust. Pty. Ltd, Australia

16.50-
17.00 **DAY 1 QUESTION / ANSWER SESSION**



**SPECIAL PRESENTATION BY DIAMOND SPONSOR DSM -
THE IMPACT OF ENZYMES ON THE SUSTAINABILITY OF POULTRY
PRODUCTION**

17.00-
17.15 *Rick Kleyn, Spesfeed Consulting (Pty) Ltd, South Africa*

17.15-
20.00 **POSTER SESSION –
@ HYDE PARK ROOM, Level 2, Sheraton Grand Sydney Hyde Park -
Canapes and Drinks included**

POSTERS:

- 1 BROMELAIN CAN ALLEVIATE THE NEGATIVE EFFECTS OF NECROTIC ENTERITIS IN BROILER CHICKENS
Dr. Kosar Gharib Naseri – University of New England, Australia
- 2 ANTIMICROBIAL RESISTANCE PROFILES OF *ENTEROCOCCUS* SPP. ASSOCIATED WITH POULTRY DISEASES AND THEIR SUSCEPTIBILITY TO PROBIOTIC *BACILLUS*
*Dr. Marion Bernardeau – Danisco Animal Nutrition & Health (IFF),
The Netherlands*
- 3# OREGANO ESSENTIAL OIL IS CYTOTOXIC TO CHICKEN EMBRYO FIBROBLASTS ABOVE 8,000 PPM
Mr. Bipul Chandra Ray – The University of Queensland, Australia
- 4 POTENTIAL OF SURFACTIN TO IMPROVE PERFORMANCE AND GUT HEALTH OF BROILERS UNDER NECROTIC ENTERITIS CHALLENGE
Dr. Alip Kumar – University of New England, Australia
- 5# THE EFFECT OF DIETARY INCLUSION OF DUCKWEED (*LEMNOIDEAE*) ON PRODUCTION PERFORMANCE, IMMUNE SYSTEM, AND MEAT QUALITY IN COMMERCIAL BROILER CHICKEN
Mr. Mahid Asadirad – EW Nutrition, Australia
- 6 THE IMPACT OF REDUCING THE LEVELS OF CA AND P ON BROILER PERFORMANCE, CA AND P DIGESTIBILITY AND BONE PARAMETERS
Mr. Karel Bierman – Huvepharma, Belgium
- 7 EFFECT OF ENZYME SUPPLEMENATION ON BROILER DIETS FED WITH CASSAVA MEAL WITH DIFFERENT INCLUSION RATE
Dr. Bing Guo – Adisseo Asia Pacific Pte Ltd, Singapore
- 8 NET ENERGY FOR FEED ADDITIVES WITH EMPHASIS ON ENZYMES IN POULTRY
Dr. Pierre Cozannet – Adisseo, France
- 9 EFFECT OF ZINC SOURCE AND ITS INTERACTION WITH GRADED LEVELS OF PHYTASE ON BROILER PERFORMANCE AND CARCASS TRAITS
Mr. Gilson Gomes – AB Vista, USA
- 10 DETERMINATION OF EXTRA PHOSPHORIC EFFECT OF PHYTASE AT DIFFERENT DOSAGE IN DIETS OF BROILERS
Dr. Gurugirijha Rathnasamy - Kemin Industries, Singapore

- 11 IMPROVEMENTS IN NUTRIENT DIGESTIBILITY AND GROWTH PERFORMANCE FOLLOWING THE DIETARY INCLUSION OF A NATURAL EMULSIFIER IN BROILERS FED A CORN-WHEAT-SOY-BASED DIET
Mr. Paul Coquelin – Innovad, Belgium
- 12# THYME, ROSEMARY, AND OREGANO EXTRACTS IMPROVED THE PERFORMANCE OF BROILER CHICKENS REARED IN TROPICAL CONDITIONS
Ms. Anguara Khatun – The University of Queensland, Australia
- 13# A NOVEL PHYTASE COMPLETELY REPLACED INORGANIC PHOSPHATE IN BROILERS FED WITH A HIGH PHYTATE DIET
Mr. Friedrich Petranyi – DSM Nutritional Products Aus. Pty. Ltd, Australia
- 14 A SYNERGISTIC BLEND OF ORGANIC ACIDS ENHANCES GUT FUNCTIONALITY AND IMPROVES THE GROWTH PERFORMANCE OF BROILERS
Professor In Ho Kim – Dankook University, South Korea
- 15 PYRUVATE SUPPLEMENTATION MITIGATES THE NEGATIVE IMPACT OF HIGH DIETARY OXALATE IN BROILER CHICKENS
Professor Eugeni Roura – The University of Queensland, Australia
- 16 RAISING THE ESSENTIAL AMINO ACIDS-TO-TRUE PROTEIN RATIO BEYOND 0.6 IMPAIRS THE GROWTH RATE OF UNCHALLENGED BROILERS FED REDUCED CRUDE PROTEIN DIETS DURING THE GROWER PERIOD
Dr. Sosthene Musigwa – University of New England, Australia
- 17 IMPACT OF A MULTI-ENZYME PREPARATION ON IN VITRO DIGESTIBILITY OF ALTERNATIVE INGREDIENTS FOR BROILERS
Dr. Bing Guo – Adisseo Asia Pacific Pte Ltd, Singapore
- 18 IMPROVING BROILER-BREEDER PERFORMANCE WITH 25-HYDROXYVITAMIN D₃ OF FERMENTATIVE ORIGIN
Mr. Karel Bierman - Huvepharma, Belgium
- 19# BROILER CHICKS SHOW ROBUST INNATE PREFERENCES FOR A BALANCED DIET IMMEDIATELY AFTER HATCHING
Miss Rafika Tunisa – The University of Queensland, Australia
- 20# IN OVO DELIVERY OF GRAPEFRUIT ESSENTIAL OIL IMPROVES GUT DEVELOPMENT IN BROILER HATCHLINGS
Mrs. Nadeera Disanayaka – The University of Queensland, Australia
- 21 EFFECTS OF PHYTOMOLECULES ON REPRODUCTIVE PERFORMANCE OF BROILER BREEDERS AND DAY-OLD CHICK QUALITY
Mr. David Sherwood – EW Nutrition, Australia
- 22 THE INFLUENCE OF A BLEND OF PROTECTED ORGANIC ACIDS AND ESSENTIAL OILS ON THE INTESTINAL AND OVERALL HEALTH STATUS OF COMMERCIAL PULLETS
Mr. Derek Detzler – Jefe Nutrition Inc, Canada

- 23 SHELF-LIFE ENHANCEMENT OF GROUND CHICKEN MEAT USING
COMBINATIONS OF NATURAL ANTIOXIDANT AND VINEGAR
Dr. Pornpun Theinsathid – Kerry Ingredients, Thailand
- 24 POSITIVE EFFECT OF *QUILLAJA SAPONARIA* AND *YUCCA SCHIDIGERA*
BLEND IN COCCIDIOSIS CHALLENGE MODEL AND POTENTIAL MODE OF
ACTION
Dr. Vasil Stanev – Phibro Animal Health SA, Belgium
- 25 DIETARY SUPPLEMENTATION OF BUTYRIC AND VALERIC ACID
GLYCERIDES IMPROVES GROWTH AND SLAUGHTER PERFORMANCE OF
YELLOW FEATHER BROILERS
Dr. Ryen Wang – Perstorp, China
- 26 USING GASTROINTESTINAL FLUIDS AS AN EX VIVO METHOD TO ASSESS
ANTIBACTERIAL PROPERTIES OF GLYCERIDES OF LAURIC ACID
Dr. Bing Guo – Adisseo Asia Pacific Pte Ltd, Singapore
- 27 *ESCHERCHIA COLI* LOAD IN THE GUT AND WEIGHT GAIN IN BROILERS:
INSIGHTS FROM A SYSTEMATIC REVIEW AND META-ANALYSIS
Assist. Professor Surya Paudel – City University of Hong Kong, Hong Kong
- 28 MULTI STUDY ANALYSIS COMPARING SALINOMYCIN WITH NARASIN
Mr. Karel Bierman – Huvepharma, Belgium
- 29 EFFICACY OF DIFFERENT IONOPHORE-NICARBAZIN COMBINATION
PRODUCTS IN COCCIDIOSIS CHALLENGE MODEL
Dr. Vasil Stanev – Phibro Animal Health SA, Belgium
- 30 HOW XYLANASE ALTERS ARABINOXYLAN UTILISATION IN BROILERS;
CHARACTERIZATION OF THE IN VIVO FORMATION OF ARABINOXYLAN-
OLIGOSACCHARIDES
Mr. Karel Bierman – Huvepharma, Belgium
- 31 PLANT-DERIVED ISOQUINOLINE ALKALOIDS MODULATED CECEL
MICROBIOME AND AMINO ACID METABOLISM IN BROILERS REARED IN
TROPICAL CONDITIONS
Dr. Waraporn Kraitavin – Phtyobiotics (Thailand) Co Ltd, Thailand
- 32 THE INHIBITORY EFFECTS OF A TRIPLE-STRAIN *BACILLUS*-BASED
PROBIOTIC ON ENTEROCOCCUS CECORUM ISOLATED FROM BROILERS:
AN IN VITRO STUDY
Dr. Hsiao Li Mok – Chr. Hansen, Malaysia
- 33# IN OVO CARVACROL DELIVERY INFLUENCES YOLK SAC MEMBRANE
IMMUNE FUNCTION IN BROILER CHICKS
Ms. Mila Meijer – The University of Queensland, Australia
- 34 THE BINDING CAPACITY OF A BROAD SPECTRUM MYCOTOXIN
ADSORBENT FOR THE EMERGING MYCOTOXINS FUSARIC ACID,
BEAUVERICIN AND STERIGMATOCYSTIN
Ms. Jolien Van Soest – Orffa Additives BV, Netherlands
- 35 *SALMONELLA* CHALLENGE EXPERIMENTS: A PARADOX
Assoc. Professor Peter Groves – The University of Sydney, Australia

- 37# DEVELOPMENT OF THE BURSA OF FABRICIUS IS AFFECTED BY IN OVO CARVACROL DELIVERY IN BROILER CHICKS
Ms. Mila Meijer – The University of Queensland, Australia
- 38 EFFICACY EVALUATION OF NOVEL ORGANIC IRON COMPLEXES IN LAYING HENS: EFFECTS ON LAYING PERFORMANCE, EGG IRON CONTENT AND BLOOD BIOCHEMICAL PARAMETERS
Dr. Leonardo Linares – Zinpro Corporation, USA
- 39 OREGANO IMPROVES PERFORMANCE, HEALTH AND PRODUCTIVITY OF LAYING HENS IN LATE LAYING PHASE
Mrs. Anna-Lena Beckmann – Dostofarm GmbH, Germany
- 40# METHIONINE AND ALPHA-TOCOPHEROL SUPPLEMENTATION IMPROVE LIVER HEALTH OF AGED LAYING HENS
Dr. Bing Guo – Adisseo Asia Pacific Pte Ltd, Singapore
- 41 THE SUPPLEMENTATION OF A SYNERGISTIC BLEND OF ORGANIC ACIDS IN COMBINATION WITH HYDROXY CHLORIDE COPPER IMPROVES PRODUCTIVE TRAITS AND REDUCES SHELL DEFECT DURING EARLY PHASE OF LAYING
Dr. Lane Pineda – Trouw Nutrition (Thailand) Limited
- 42 CONSEQUENCES FOR TREES AND SHRUBS GROWING IN SOILS WITH HIGH NUTRIENT LEVELS ON FREE RANGE LAYER FARMS
Ms. Mary-Frances Copley – Integrity Ag, Australia
- 43# INCREASED COST OF POULTRY INPUTS: A STIMULANT TO ZAMBIA'S INDIGENOUS CHICKEN SECTOR
Mr. Christopher Kanyama – University of New England, Australia
- 44 EGG PRODUCER PERCEPTION OF FLOOR EGG PROBLEMS: CONTRIBUTING FACTORS
Dr. Wendy Muir – The University of Sydney, Australia
- 45 UTILISING DYNAMIC TIME WARPING IN DATA MINING FOR FREE-RANGE LAYERS
Dr. Amjad Iqbal – University of New England, Australia

DAY 2: Tuesday 20th February 2024

- 7:30 – **REGISTRATION FOR LATE OR TUESDAY / WEDNESDAY ONLY**
8:30 **REGISTRANTS**
Outside of Hyde Park Room, Level 2, Sheraton Grand Sydney Hyde Park
- 8.25- **DAY 2 OPENING ADDRESS**
8.30
- BREEDER NUTRITION AND CHICK QUALITY**
Session 3 Chair: Ms. Katherine Balding, Baiada Poultry
- 8:30 – TRANSGENERATIONAL IMPACT OF BROILER BREEDER NUTRITION**
9:10 *Prof. Peter Ferket - North Carolina State University, USA*
- 9:10 – MATERNAL SUPPLEMENTATION OF GUANIDINO ACETIC ACID:
9:20# INFLUENCE ON EGG COMPOSITION AND CHICK DEVELOPMENT
Ms Corey-Ann Firman - The University of Adelaide, Australia
- 9:20– IN-OVO ENERGY ENRICHMENT WITH CREATINE MODULATES
9:30 BROILERS' BREAST MUSCLE DEVELOPMENT THROUGH ALTERED
EXPRESSION OF MYOGENIC GENES
Professor Orna Halevy - The Hebrew University of Jerusalem, Israel
- 9:30 – THE USE OF L-SELENOMETHIONINE IN BROILER BREEDER AND
9:40 BROILER NUTRITION
Ms Jolien Van Soest - Orffa Additives BV, Netherlands
- 9.40- IMPORTANCE OF FIBRE AND FIBRE CHARACTERISTICS IN MODULATING**
10.20 FEED INTAKE IN BROILER BREEDERS
Dr David Cadogan - Feedworks, Australia
- 10.20- EFFECT OF TRANSLUCENCY AND EGGSHELL COLOR ON BROILER
10.30 BREEDER EGG HATCHABILITY AND HATCH CHICK WEIGHT
Dr. Leonardo Linares - Zinpro Corporation, USA
- 10.30- EARLY IMMUNE FUNCTION IN THE SMALL INTESTINE IS MODULATED
10.40# BY IN OVO CARVACROL DELIVERY IN BROILER CHICKS
Ms Mila Meijer - The University of Queensland, Australia
- 10.40- IN OVO DELIVERY OF ESSENTIAL OILS HAS THE POTENTIAL TO AFFECT
10.50# GLUTAMATE TRANSPORT AND CARBOHYDRASE ACTIVITY IN THE
JEJUNUM OF BROILER HATCHLINGS
Mr Asad Ali Khaskheli - The University of Queensland, Australia
- 10.50- **MORNING TEA**
11.20 **@ Level 2 Concourse, Sheraton Grand Sydney Hyde Park**

ANTIBIOTIC FREE PRODUCTION

Session 4 Chair: *Dr. Reza Barekatain, SARDI*

- 11.20-12.00** MITIGATING NECROTIC ENTERITIS IN BROILERS ON ANTIBIOTIC-FREE DIETS
Dr. Rami Dalloul - University of Georgia, USA
- 12.00-12.10 CAN A SAPONIN-ALUMINOSILICATE BLEND PROMOTE RESILIENCE TO COCCIDIOSIS IN BROILERS?
Ms Jolien Van Soest -Orffa Additives BV, Netherlands
- 12.10-12.20 EVALUATION OF THE EFFECT OF A NOVEL DUAL STRAIN PROBIOTIC ON A CHICKEN INTESTINAL CELL MODEL CHALLENGED WITH THE CAUSATIVE AGENT OF NECROTIC ENTERITIS
Dr Marion Bernardeau - Danisco Animal Nutrition & Health (IFF), Netherlands
- 12.20-13.00** ANTIMICROBIAL RESISTANCE AND THE CONCEPT OF ONE HEALTH IN POULTRY
Dr. Sam Abraham - Murdoch University, Australia
- 1300-14.20 **BUFFET LUNCH**
@ Sydney Common Restaurant, Level 1, Sheraton Grand Sydney Hyde Park
- 13.15-14.15 **WPSA AGM Hyde Park Room, Level 2 Sheraton Grand Sydney Hyde Park**
- WELFARE, HEALTH AND PRODUCTIVITY**
Session 5 Chair: Associate Professor Peter Groves, The University of Sydney
- 14.20-15.00** ENRICHMENT OF EARLY ENVIRONMENTS TO IMPROVE LAYING HEN RESILIENCE AND WELFARE
Dr. Dana Campbell- CSIRO, Australia
- 15.00-15.10 VISION-BASED MULTI-BIRD TRACKING FOR ANIMAL WELFARE ON COMMERCIAL EGG FARMS
Dr Litao Yu – University of Technology Sydney, Australia
- 15.10-15.20# DOES SMOTHERING OCCUR IN REARING?
Ms Maxine Rice - The University of Melbourne, Australia
- 15.20-15.30 THE EFFECT OF AM/PM DIETS ON FEED EFFICIENCY, EGG QUALITY AND WELFARE PARAMETERS FOR FREE-RANGE LAYING HENS
Dr Amy Moss - University of New England, Australia
- 15.30-15.40 FEATURES OF THE EXTENDED LAYING CIRCLE OF HY-LINE BROWN HENS REARED UNDER DIFFERENT LIGHTING AND FEEDING REGIMENS
Dr Wendy Muir - The University of Sydney, Australia
- 15.40-16.10 **AFTERNOON TEA**
@ Level 2 Concourse, Sheraton Grand Sydney Hyde Park

WELFARE, HEALTH AND PRODUCTIVITY continued

Session 6 Chair: Dr. Mini Singh, Australian Egg

- 16.10-
16.20# CIRCADIAN RHYTHMS AND ADAPTIVE DEVELOPMENT: HOW UNDERSTANDING CIRCADIAN RHYTHMS DURING MEAT CHICKEN INCUBATION COULD IMPROVE DEVELOPMENT AND TIMING OF THE HATCH WINDOW
Mr Caleb Wellard - Deakin University, Australia
- 16.20-
16.30# EFFECT OF ACTIVATED VITAMIN D₃ ON EGGSHELL QUALITY AND PERFORMANCE IN OLDER BROWN LAYING HENS
Ms Christine Clark – The University of Sydney, Australia
- 16.30-
16.40 WHAT MATTERS IN SPOTTY LIVER DISEASE?
Associate Professor Peter Groves – The University of Sydney, Australia
- 16.40-
16.50 GLYCERIDES OF LAURIC ACID SUPPLEMENTATION IN THE CHICKEN DIET ENHANCES THE HUMORAL AND CELLULAR IMMUNE RESPONSE TO INFECTIOUS BRONCHITIS VIRUS
Dr Bing Guo - Adisseo Asia Pacific Pte Ltd, Singapore
- 16.50-
17.00 **DAY 2 QUESTION ANSWER SESSION**
- 19.00-
23.00 **SYMPOSIUM DINNER – Sponsored by Feedworks and Perstorp**
@Doltone House Darling Island, North Wharf, 48 Pirrama Rd, Pyrmont NSW 2009
- Bus transfers have been arranged to leave Sheraton Grand Sydney Hyde Park @ 6:15pm and 6:45 please meet in the foyer by 6:10pm or 6:30pm
Returning to Sheraton departing Darling Island @ 10:30 and 11.00pm.
Dress Code: Smart Casual



DAY 3: Wednesday 21st February 2024

8.00-
8.55 **REGISTRATION FOR LATE OR WEDNESDAY ONLY DELEGATES**
Outside Hyde park Room, Level 2, Sheraton Grand Sydney Hyde Park

8.55-
9.00 **DAY 3 OPENING ADDRESS**

SUSTAINABLE POULTRY PRODUCTION

Session 7 Chair: Dr. Mark Dunlop, Department of Agriculture and Fisheries

9.00-
9.40 **MANAGING LITTER QUALITY THROUGH VENTILATION AND AIR MOVEMENT**

Dr. Brian Fairchild -University of Georgia, USA.

9.40-
9.50 **IS INSECT PROTEIN A SUSTAINABLE OPTION FOR POULTRY DIETS?**

Mr. Rick Kleyn, Spesfeed Consulting (Pty) Ltd, South Africa

9.50-
10.00 **SUGARCANE BAGASSE: A NOVEL INSOLUBLE FIBRE SOURCE FOR POULTRY**

Dr. Nishchal Sharma - Ridley AgriProducts & University of New England, Australia

10.00-
10.40 **LIFE CYCLE ASSESSMENT OF THE ENVIRONMENTAL IMPACT OF THE AUSTRALIAN POULTRY INDUSTRY**

Ms. Mary-Frances Copley - Integrity Ag, Australia

10.40-
10.50 **SUPPLEMENTING CARBOHYDRASES TO BROILER CHICKENS OFFERED DIETS CONTAINING WHEAT DRIED DISTILLER'S GRAINS WITH SOLUBLES**

Dr Eunjoo Kim - University of New England, Australia

10.50-
11.00 **NET ENERGY SYSTEMS FOR POULTRY POTENTIAL FOR LOW PROTEIN DIET**

Dr Pierre Cozannet – Adisseo, SAS France

11.00-
11.30 **MORNING TEA**

@ Level 2 Concourse, Sheraton Grand Sydney Hyde Park

NUTRITION AND FOOD ADDITIVES

Session 8 Chair: Dr. Peter Chrystal, Complete Feeds, New Zealand

11.30-
11.40 **SUPPLEMENTATION OF GUANIDINOACETIC ACID TO REDUCED PROTEIN DIETS FED TO BROILER CHICKENS WITH OR WITHOUT HEAT STRESS**

Dr Reza Barekatin -SARDI, Australia

11.40-
11.50 **THE POTENTIAL OF DIETARY GLUTAMINE AND GLUTAMATE IN REDUCED CRUDE PROTEIN BROILER DIETS**

Dr Shemil Macelline -The University of Sydney, Australia

11.50-
12.00 **INCREASING THE DOSE OF A NOVEL CONSENSUS BACTERIAL 6-PHYTASE VARIANT IMPROVED ILEAL DIGESTIBILITY OF Zn, Cu, Fe, AND Mn IN BROILERS**

Dr Amir Ghane - Danisco Animal Nutrition - IFF, Singapore

- 12.00- INTERACTIVE EFFECTS OF DIETARY ENERGY LEVELS WITH AMINO ACID
12.10 DENSITY ON GROWTH PERFORMANCE AND CARCASS CHARACTERISTICS
OF BROILER CHICKENS
Dr Mehdi Toghyani - The University of Sydney, Australia
- 12.10- EXOGENOUS PHYTASE AND INTESTINAL UPTAKES OF AMINO ACIDS
12.20 *Dr Peter Selle - Poultry Research Foundation, Australia*
- 12.20- HIGH DOSES OF PHYTASE CAN COMPLETELY REMOVE INORGANIC
12.30 PHOSPHATE FROM BROILERS DIETS FROM 6 TO 21 DAYS OF AGE
Mr Gilson Gomes - AB Vista, USA
- 12.30- BROILER CHICKENS OFFERED REDUCED CRUDE PROTEIN DIETS BASED
12.40# ON SORGHUM OUTPERFORM THEIR WHEAT-BASED DIET
COUNTERPARTS
Mrs. Mengzhu Wang – The University of Sydney, Australia
- 12.40- XYLO-OLIGOSACCHARIDES AND ARABINOXYLAN SUPPLEMENTATION
12.50# ENHANCES ILEAL LACTATE PRODUCTION IN BROILER CHICKENS
Ms Carla Castro Tabilo - The University of Queensland, Australia
- 12.50- EFFECTS OF DIETARY METHIONINE SOURCES AND LEVELS ON THE
13.00 INFLAMMATORY RESPONSES OF LIPOPOLYSACCHARIDE-CHALLENGED
BROILERS
Dr Bing Guo - Adisseo Asia Pacific Pte Ltd, Singapore
- 1300- **BUFFET LUNCH**
14.00 **@ Sydney Common Restaurant, Level 1, Sheraton Grand Sydney
Hyde Park**
- NUTRITION AND GENES**
Session 9 Chair: Professor Dana Stanley, Central Queensland University
- 14.00- ACID BINDING CAPACITY OF POULTRY FEED INGREDIENTS AND DIETS
14.10 *Dr Laura Shiromi David- Massey University, New Zealand*
- 14.10- POSITIVE EFFECT OF *Q. SAPONARIA* AND *Y. SCHIDIGERA* COMBINATION
14.20 PRODUCT, FOUR-STRAIN BACILLUS BASED PROBIOTIC AND THEIR
COMBINATION ON BIRDS EXPOSED TO INTESTINAL CHALLENGE
Dr. Vasil Stanev - Phibro Animal Health SA, Belgium
- 14.20- EFFECTS OF FEEDGRADE ANHYDROUS BETAINE AND PHYTOGENICS
14.30 COMBINATION ON PERFORMANCE OF BROILERS EXPOSED TO A
CHALLENGE
Dr Amir Ghane - Danisco Animal Nutrition – IFF, Singapore
- 14.30- POTENTIAL OF GLUCOSE OXIDASE TO IMPROVE PERFORMANCE OF
14.40 BROILERS UNDER NECROTIC ENTERITIS CHALLENGE
Dr Kosar Gharib Naseri - University of New England, Australia
- 14.40- LIVER TRANSCRIPTOMIC PROFILE OF BROILER CHICKENS UNDER
14.50# DIFFERENT CRUDE PROTEIN AND ENERGY DIET REGIMENS
Mr Collins Asiamah - University of New England, Australia
- 14.50- GENE EXPRESSION OF AMINO ACIDS AND FATTY ACIDS SENSORS IN THE
15.00# GASTROINTESTINAL TRACT OF BROILER CHICKENS
Ms Francisca Diaz-Aviles - University of Queensland, Australia

15.00- **AFTERNOON TEA**
15.30 @ Level 2 Concourse, Sheraton Grand Sydney Hyde Park

FOOD SAFETY

Session 10 Chair: Professor Ruth Zadoks, The University of Sydney

15.30- UPDATE ON FOOD SAFETY IN THE AUSTRALIAN POULTRY INDUSTRY
16.10 **Professor Kapil Chousalkar - The University of Adelaide, Australia**

16.10- **DAY 3 QUESTION ANSWER SESSION**
16.20

16.20- **CLOSING OF THE SYMPOSIUM AND STUDENT AWARDS**
16.45 Mingan Choct Award for Best Oral Presentation presented by Prof. Tamsyn 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)

THANK YOU TO ALL OUR SPONSORS

