



APA17

KUALA LUMPUR

TUESDAY, July 25

PLENARY

Tuesday, July 25 9:00 – 10:00 TDI Hall

- 9:00 Hervé Lucien-Brun**
MARKETING OF FARMED SEAFOOD FROM ASIA TO GLOBAL MARKETS
- 9:30 Mazuki Bin Hashim**
TRANSFORMING THE AQUACULTURE INDUSTRY IN MALAYSIA

OPENING CEREMONY

Tuesday, July 25 10:00 – 10:40 TDI Hall

- 10:00 WELCOME REMARKS**

OPENING ADDRESS AND OFFICIAL LAUNCHING BY DEPUTY MINISTER OF AGRICULTURE AND AGRO-BASED INDUSTRY, MALAYSIA
- 10:30 OPENING AND TOUR OF TRADE SHOW**

MARINE SHRIMP

Tuesday, July 25 11:10 - 17:20 TDI A
 Chairs: Farshad Shishehchian, Fariduddin bin Othman

BLUE AQUA

- 11:10 Farshad Shishehchian**
 INTENSIFICATION IS THE ONLY ANSWER FOR THE FUTURE SHRIMP FARMING
- 11:30 Mohd. Fariduddin B. Othman**, Razak Buang, Mohd Hafiz Hamdan, Mohd Afiq Razi
 THE STATE OF BLACK TIGER SHRIMP *Penaeus monodon* AQUACULTURE IN MALAYSIA
- 11:50 Raveh Gill-More**, Assaf Shechter, Ohad Rosen, Tom Levy, Brit Eilam, Dudu Azulay, Idan Zohar, Eliahu D. Aflalo, Amir Sagi
 ALL-FEMALE CRUSTACEAN CULTURE – FINALLY A REALITY
- 12:10 Fernando Castro Talero**, Fernando Garcia, Fabrizio Vanoni, Nurjeni Wahjudin, Huy Trang Quang, Bang Wang
 ASIA SHRIMP CULTURE NEW TECHNOLOGICAL ADVANCEMENTS FOR *VANNAMEI* INTENSIVE CULTURE; HELPING TO IMPROVE PRODUCTION AND REDUCE COSTS
- 12:30 LUNCH**
- 13:50 Soohwan Kim**, Chorong Lee, Kyeong-Jun Lee
 METHIONINE REPLACEMENT WITH CYSTINE IN DIETS FOR PACIFIC WHITE SHRIMP *Litopenaeus vannamei*
- 14:10 Soohwan Kim**, Chorong Lee, Kyeong-Jun Lee
 REPLACEMENT OF METHIONINE WITH CYSTINE IN DIETS FOR PACIFIC WHITE SHRIMP *Litopenaeus vannamei*
- 14:30 Karthik Masagounder**, Dhanapong Sangsue, Cláudia Figueiredo-Silva, Muhammad Agus Suprayudi
 PERFORMANCE OF WHITE LEG SHRIMP *Litopenaeus vannamei* FED HIGH OR LOW FISH MEAL DIET SUPPLEMENTED WITH INCREASING LEVELS OF DL-METHIONYL-DL-METHIONINE
- 14:50 Alberto Nunes**, Adhemar Oliveira-Neto, Karthik Masagounder, Felipe Façanha
 DIETARY METHIONINE AND TOTAL SULFUR (MET+CYS) AMINO ACID REQUIREMENTS OF JUVENILES OF WHITELEG SHRIMP *Litopenaeus vannamei*
- 15:10 Wei-long Wang**, Manabu Ishikawa, Shunsuke Koshio, Saichiro Yokoyama
 OPTIMUM SUPPLEMENTATION OF ASTAXANTHIN FOR KURUMA SHRIMP *Marsupenaeus japonicus*
- 15:30 BREAK**

- 16:00** **Alberto Nunes**, Hassan Sabry-Neto, Esaú Carvalho
KRILL MEAL IMPROVES FEED EFFICIENCY IN JUVENILE *Litopenaeus vannamei* AND REDUCES RELIANCE ON FISHMEAL AND OTHER COSTLY INGREDIENTS
- 16:20** **Chorong Lee**, Soohwan Kim, Kyeong-Jun Lee
UTILIZATION OF FREE OR DIPEPTIDE FORMS OF PHENYLALANINE IN DIETS FOR PACIFIC WHITE SHRIMP *Litopenaeus vannamei*
- 16:40** **Fernando Castro**, Roberto Moreira, Fabrizio Vanoni, Fernando Garcia
STUDY TO DETERMINE ATTRACTIVENESS, DIGESTIBILITY, GROWTH CONVERSION, HEALTH OF PL/JUVENILES AND WATER QUALITY IN NURSERY SYSTEMS. COMPARING EPICOREBIONETWORK EPIBAL 500 AND 700 VS PL FEED MILL FEED.
- 17:00** **Lutfi Anshory**, Bagus R. Basuki, Ngurah S. Yasa
EFFECTIVENESS OF POWDER PROBIOTIC CULTURED IN SEAWATER WITH MOLASSES AGAINST VIBRIO IN WHITE SHRIMP *Litopenaeus vannamei*

NUTRITION AND AQUAFEDS

Tuesday, July 25 11:10 - 17:20 TDI B
Chairs: Wee Kok Leong, Roshada Hashim

- 11:10** **Youjeong Kim**, Kyeong-Jun Lee
EVALUATION OF A HYDROLIZED PIG BRISTLE MEAL AS A FISH MEAL REPLACER IN DIETS FOR OLIVE FLOUNDER *Paralichthys olivaceus* AND COMMON CARP *Cyprinus carpio*
- 11:30** **Serge Dossou**, Shunsuke Koshio, Manabu Ishikawa, Saichiro Yokoyama, Mahmoud A.O. Dawood, Mohammed F. El Basuini, Olivier Adissin, Amr I. Zaineldin
EFFECTS OF REPLACING FISH MEAL BY A BLEND OF FERMENTED CANOLA MEAL AND SOY PROTEIN CONCENTRATE IN DIETS FOR JUVENILE RED SEA BREAM *Pagrus major*
- 11:50** **Franck Ducharme**, Emilie Devic
A NASCENT INDUSTRY TO ANSWER NEW MARKET CHALLENGES: HERMETIA MEAL, A SUSTAINABLE AND GLOBAL SOURCE OF PROTEIN
- 12:10** **Ezhil Subbian**, Sandeep Kumar, Purvesh Shingala, Naga Sairam, Chetan Kurthukoti, Laavanya S., Elakkiya Chandran, Vinod Kumar
SUSTAINABLE, NOVEL AND COST EFFECTIVE PROTEIN FOR THE AQUACULTURE MARKET
- 12:30** **LUNCH**
- 13:50** **Mukkail Rajalekshmi**, S. Harikumar, A. Vidya
APPLICATION OF ENZYMES FOR IMPROVING FEED DIGESTIBILITY AND PERFORMANCE IN CARP CULTURE
- 14:10** **Jaehyeong Shin**, Kyeong-Jun Lee
APPARENT DIGESTIBILITY COEFFICIENTS OF VARIOUS FEED INGREDIENTS FOR OLIVE FLOUNDER *Paralichthys olivaceus*

- 14:30** **Muhammad Mudassar Shahzad**
AVAILABILITY OF MINERALS AND CARCASS COMPOSITION OF *Catla catla*
FINGERLINGS FED PHYTASE SUPPLEMENTED MORINGA BY-PRODUCTS MEAL BASED
TEST DIET
- 14:50** **Roger Edward Mamauag**, Trisha Nacionales, Janice Ragaza
NUTRITIONAL EVALUATION OF DISTILLER'S DRIED GRAIN WITH SOLUBLE (DDGS)
AS REPLACEMENT TO SOYBEAN MEAL IN DIETS OF MILKFISH *Chanos chanos* AND
ITS EFFECT ON FISH PERFORMANCE AND INTESTINAL MORPHOLOGY
- 15:10** **Ahmed AL-Sooti**, Wenresti Gallardo, Michel Claereboudt, Osman Gaafar
EFFECTS OF AUTOCLAVING, SODIUM HYDROXIDE ADDITION AND THEIR
COMBINATION ON PROTEIN AND AMINO ACID CONTENTS AND PEPSIN
DIGESTIBILITY OF CHICKEN FEATHERS
- 15:30** **BREAK**
- 16:00** **Mark Booth**, Simon Tabrett, Richard Smullen
EMULSIFIERS DO LITTLE TO ENHANCE THE PERFORMANCE OF BARRAMUNDI *Lates
calcarifer*
- 16:20** **Sungchul C. Bai**, Jin-hyeok Lee, Ali Hamidoghli, Seonghun Won, Seunghan Lee,
Youngjin Park
A REVIEW ON THE EFFECTS OF PROBIOTICS AS FEED ADDITIVES ON JAPANESE EEL
Anguilla japonica, STARRY FLOUNDER *Platichthys stellatus* AND RAINBOW TROUT
Oncorhynchus mykiss

MALAYSIAN FARMERS DAY

Tuesday, July 25 11:10 - 17:20 THO A

Chairs: Abdullah Abd Rahim, Mazuki Hashim, Zuridah Merican

- 11:10** **Mazuki Hashim**
OPENING AND INTRODUCTION ON AQUACULTURE IN MALAYSIA TOWARDS 2020
- 11:40** **Alexey Dorin**
TRANSFORMING LANGKAWI INTO A SUCCESSFUL AND SUSTAINABLE GROUPER
INDUSTRY HUB IN MALAYSIA
- 12:10** **Shirlene Antonysamy**
HARNESSING THE MARKETS FOR MALAYSIAN FARMED FISH AND SHRIMP FOR THE
FUTURE
- 12:30** **LUNCH**
- 13:50** **Tak Seng Leong**
MANAGING PATHOGENS OF DISEASES IN MARINE FISH CULTURE IN FLOATING
CAGES AND DISEASE MANAGEMENT PROTOCOLS
- 14:30** **Patrick Sorgeloos**
CAN AQUACULTURE BECOME THE NEW BIOTECHNOLOGY OF THE FUTURE

- 15:10** **Hooi Ling Khaw**, John Benzie
WORLD FISH'S NILE TILAPIA *Oreochromis niloticus* BREEDING PROGRAMS
- 15:50** **Gerald N. Misol Jr.**, Wan Norhana Noordin, Noor Affizah Bujang Saili
ANTIMICROBIAL RESISTANCE IN FISHERIES: AN INTRODUCTION TO FISH FARMERS
- 16:10** **Visit Trade Show**

AQUATIC ANIMAL HEALTH

Tuesday, July 25 11:10 - 17:20 THO B
Chairs: Melba Reantaso, Mohamed Shariff

- 11:10** **Melba G. Bondad-Reantaso**
KEYNOTE PRESENTATION: ANTIMICROBIAL RESISTANCE (AMR): WHAT IT IS AND WHAT WE SHOULD DO TO MINIMISE AMR IN AQUACULTURE
- 11:50** **Michael A. Rimmer**, Mardiana E. Fachry, Wahyudin P. Sasmita, Navneet K. Dhand
FARMER PERCEPTIONS OF FISH HEALTH MANAGEMENT AND BIOSECURITY ON GROUPER FARMS IN BALI, INDONESIA
- 12:10** **Sridevi Devadas**, Sanjoy Banerjee, Fatimah Yusoff, Subha Bhassu, Mohamed Shariff Mohamed Din
BIOASSAY MODELS FOR PATHOGENICITY STUDY OF ACUTE HEPATOPANCREATIC NECROSIS DISEASE (AHPND) CAUSED BY *Vibrio* spp.
- 12:30** **LUNCH**
- 13:50** **Kay Lwin Tun**, Siddhartha Kanrar, Kevin M. Fitzsimmons, Moe T. Oo, Hlain H.T. Kyi, May T. Oo, Arun K. Dhar
IDENTIFICATION OF ACUTE HEPATOPANCREATIC NECROSIS DISEASE (AHPND) IN BLACK TIGER SHRIMP *Penaeus monodon*, PACIFIC WHITE SHRIMP *Penaeus vannamei*, AND FRESH WATER SHRIMP *Macrobrachium rosenbergii*
- 14:10** **Chin Yueh Tan**, Julian Ransangan, Jualang Azlan Gansau
ANTIBACTERIAL POTENTIAL OF LOCALLY AVAILABLE AQUATIC AND TRADITIONAL MEDICINAL PLANTS AGAINST AQUACULTURE BACTERIAL PATHOGENS
- 14:30** **Beng Chu Kua**, Nuruljannah Hashim, Nur Shikin Arbi
OCCURRENCE OF PARASITIC ISOPOD *Cymothoa epimeria* IN CULTURED HYBRID GROUPER *E. fuscoguttatus* × *E. lanceolatus* AT BT. TAMBUN, PENANG, MALAYSIA
- 14:50** **Han Gill Seo**, Miyoung Cho, Sunghee Jung, Hyun-Ja Han
SURVEILLANCE AND MONITORING OF DISEASES, INCLUDING NEMATODE INFECTIONS IN THE CULTURED ROCKFISH *Sebastes schlegelii* OF REPUBLIC OF KOREA FROM 2013 TO 2016
- 15:10** **Mehmet Gokoglu**, Serkan Teker, Jale Korun, David Julian, Aycan Ulutas
SOME BIOLOGICAL PROPERTIES OF BOPYRID ISOPOD PARASITE *Epipenaeon ingens* Nobili (1906) FROM BROWN SHRIMP
- 15:30** **BREAK**

- 16:00** **Ketut Sugama**, Luh Anggra Lasmika, Isti Koesharyani, Clive Jones
STUDY ON MILKY DISEASES INFECTION IN WILD AND CULTURED LOBSTER *Panulirus homarus* IN INDONESIA
- 16:20** **Lluís Tort**, Felipe Reyes-López, Ali R. Khansari, Mariana Teles, Camino Fierro-Castro, Eva Vallejos-Vidal, David Parra
THE RESPONSE OF FISH TO STRESSORS IS GLOBAL: FROM HORMONES TO GENES AND FROM BLOOD TO MUCUS AND SCALES
- 16:40** **Rina Chakrabarti**, Amarjeet Singh, JaiGopal Sharma
EVALUATION OF IMMUNOSTIMULATION PROPERTIES OF *Achyranthes aspera* SUPPLEMENTED DIETS ON *Labeo rohita* IN POND CULTURE SYSTEM
- 17:00** **Hsin Yen Ho**, Chia-Jung Lee, Young-Mao Chen, Tzong-Yueh Chen
CHARACTERIZATION OF THE RELATIONSHIP BETWEEN GLUCOCORTICOID RECEPTOR 1 AND GLUCOCORTICOID RECEPTOR 2 IN EPINEPHELUS COIODES

PRODUCTION SYSTEMS

Tuesday, July 25 11:10 - 17:20 Johor
Chairs: Mike Rimmer, Ridzwan Abd Rahman

- 11:10** **Manh Hoang Nghia**, Phuoc Nguyen Ngoc, Peter Bossier
EFFECTS OF STOCKING DENSITY OF GRAY MULLET *Mugil cephalus* (LINNAEUS, 1758) ON PRODUCTION AND NUTRIENT RECOVERY IN AN INTEGRATED FARMING OF WHITE SHRIMP *Litopenaeus vannamei* (BOONE, 1931)
- 11:30** **Amita Saxena**
IMPORTANCE OF LOTUS *Nelumbo nucifera* CULTIVATION WITH FISHES
- 11:50** **Chris Carter**, W.G. Nuez-Ortin, B.M. Codabaccus, M. Grünenwald, L. Adams, M. Adams, P. Hilder
TEMPERATURE EFFECTS ON PERFORMANCE OF LARGE ATLANTIC SALMON *Salmo salar* HELD IN SEAWATER RECIRCULATION AQUACULTURE SYSTEMS
- 12:10** **Norulhuda Mohamed Ramli**, C. Giatsis, F.M. Yusoff, J.A.J. Verreth, M.C.J. Verdegem
MICROALGAE INCLUSION AFFECTS BACTERIAL COMMUNITY COMPOSITION IN RECIRCULATING AQUACULTURE SYSTEM
- 12:30** **LUNCH**
- 13:50** **Akeem Dauda**, Nicholas Romano, Mahdi Ebrahimi, Murni Karim, Ikhsan Natrah, Mohd Salleh Kamarudin, Chou Min Chong, Abdullateef Ajadi, Teh Jun Chin
ORGANIC CARBON LOADING RATE AFFECTED PHYSIOLOGICAL STATUS AND DISEASE RESISTANCE OF AFRICAN CATFISH *Clarias gariepinus* JUVENILES REARED IN GLYCEROL BASED BIOFLOC SYSTEMS
- 14:10** **Sugantham Felix**, Gopalakannan Ayyaru, Menaga Meenakshisundaram
COMPARATIVE EVALUATION OF *IN SITU* AND *EX SITU* FEEDING OF AEROBIC MICROBIAL FLOC IN THE NURSERY CULTURE OF TWO DIFFERENT STRAINS OF NILE TILAPIA *Oreochromis niloticus*

- 14:30 Ashraf Suloma**, Rania Mabroke, Azab Tahoun, Abd El-Naem Zidan, Mohamed El-Shafiey
EFFECT OF STOCKING DENSITY ON TILAPIA PERFORMANCE AND WATER QUALITY DURING INTERMEDIATE GROWING PHASE UNDER BIOFLOC SYSTEM
- 14:50 Menaga Meeakshisundaram**, S. Felix, A. Gopalakannan, A. Ezhilmathi
DISTILLERY SPENTWASH AS ALTERNATIVE CARBON SOURCE IN AEROBIC MICROBIAL FLOC TECHNOLOGY
- 15:10 Sugantham Felix**, Ayyaru Gopalakannan, M. Menaga, P. Yuvarajan
COST OF NUTRIENTS IN DIFFERENT METHODS OF FERTILIZATION FOR AEROBIC MICROBIAL FLOC PRODUCTION IN INDOOR TANKS
- 15:30 BREAK**
- 16:00 Helena Khatoun**, Sanjoy Banerjee, Abol Munafi Ambok Bolong
WASTE BIOFLOC AS A POTENTIAL FEED SUPPLEMENT FOR SHRIMP POSTLARVAE
- 16:20 Sugantham Felix**, Ayyaru Gopalakannan, M. Menaga
COMPARATIVE EVALUATION OF *IN SITU* AND *EX SITU* FEEDING OF AEROBIC MICROBIAL FLOC IN THE NURSERY CULTURE OF PACIFIC WHITE SHRIMP *Penaeus vannamei*
- 16:40 Farshad Shishehchian**
MIXOTROPHIC SYSTEM WITH TWO DIFFERENT NEW APPROACH FOR SUPER-INTENSIVE SHRIMP
- 17:00 Minh Anh Pham**, Thanh Phong Chau
INTENSIVE WHITE SHRIMP *Litopenaeus vannamei* CULTURE IN ECO-BASED RECIRCULATION SYSTEM

GENETICS AND BREEDING

Tuesday, July 25 11:10 - 17:20 Melaka
Chairs: Curtis Lind, Siti Azizah Mohd Nor

- 11:10 Oscar Hennig**, Marcela Salazar, Morten Rye
GENÉTICA SPRING'S (GS) BREEDING PROGRAM AND ITS APPLICATION TO THE ASIAN SHRIMP FARMING INDUSTRY
- 11:50 Tiago Hori**, Andre Dumas, Jason Stannard, Debbie Plouffe, John Buchanan
GENOME-WIDE ASSOCIATION STUDY OF SOYBEAN MEAL TOLERANCE IN ATLANTIC SALMON
- 12:10 Huria Marnis**, Bambang Iswanto, Imron, Selny Febrida
IDENTIFICATION OF MUTIARA STRAIN OF AFRICAN CATFISH RESISTANT TO *Aeromonas hydrophilla* INFECTION USING MHC-I GENE AS THE MARKER
- 12:30 LUNCH**
- 13:50 Jørn Thodesen**, Morten Rye, Carlos Lozano, Sergio Vela Avitúa, Harry Johansen, Hideyoshi Segovia, Jose Ospina
SELECTIVE BREEDING OF TILAPIA: STATUS AND PROSPECTS

- 14:30** **Muhammad Naeem**, Amina Zubari, Abdus Salam, Saima Yousaf
CROSS BREEDING OF SUSTAINABLE HYBRID *Hypophthalmichthys molitrix* ♀ × *Aristichthys nobilis* ♂ WITH INTRAMUSCULAR INJECTION OF OVAPRIM-C AT ISLAMABAD, PAKISTAN
- 14:50** **Sularto Toto**, Rita Febrianti
GENOTYPE BY ENVIRONMENT INTERACTION FOR GROWTH IN GIANT GOURAMI *Osphronemus goramy*
- 15:10** **Fadhil Syukri**, Siti. N. Ain, Nuruljannah Puaad, Azfar Ismail
COMPARATIVE STUDY OF MORPHOLOGY BETWEEN MALAYSIAN MASHEER HYBRID *Tor tambroides* × *Puntius gonionotus* AND JAVANESE CARP *Puntius gonionotus*
- 15:30** **BREAK**
- 16:00** **Mochamad Syaifudin**, Muslim Muslim, Dade Jubaedah, M. Rifqi Nanda Pratama
DNA AUTHENTICATION OF STRIPED CATFISH *Pangasius hypophthalmus* AND *Pangasius macronema* FROM SOUTH SUMATRA INDONESIA
- 16:20** **Bambang Gunadi**, Adam Robisalmi, Priadi Setyawan
EVALUATION OF GROWTH AND HETEROSIS OF JUVENILE OF NILE TILAPIA *Oreochromis niloticus*, BLUE TILAPIA *Oreochromis aureus* AND THEIR HYBRID REARED IN THE BRACKISH WATER POND

CRABS AND LOBSTERS

Tuesday, July 25 11:10 - 17:20 Perak
Chairs: Chao Shu Zeng, Nicholas Romano

- 11:10** **Bejo Slamet**, Adiasmara Giri, Clive Jone
REARING OF SCALLOPED SPINY LOBSTER *Panulirus homarus* POST LARVAE IN FLOATING NET CAGE WITH DIFFERENT ARTIFICIAL DIET
- 11:30** **Bayu Priyambodo**, Clive Morries Jones, Jesmond Sammut
THE STATUS OF SPINY LOBSTER AQUACULTURE IN INDONESIA
- 11:50** **Nyoman Adiasmara Giri**, Bedjo Slamet, Sudewi Sudewi, Haryanti Haryanti, Wawan Andriyanto, Ibnu Rusdi, Gede S. Sumiarsa, Clive Jones, Simon Irvin
GROWTH AND SURVIVAL OF SPINY LOBSTER *Panulirus homarus* FED DIFFERENT CHARACTERISTIC OF FORMULATED FEED DURING THE NURSERY PHASE
- 12:10** **Bedjo Selamet**, Nyoman Adiasmara Giri, Sudewi, Haryanti, Wawan Andriyanto, Ibnu Rusdi, Gede S. Sumiarsa, Clive Jones, Simon Irvin
PERFORMANCE TESTING OF 100-g NURSERY SIZE LOBSTER FED THE ACIAR BENCHMARK FEED PRODUCED WITH INGREDIENTS SOURCED LOCALLY IN INDONESIA
- 12:30** **LUNCH**
- 13:50** **Ibnu Sahidhir**, Syafrizal Rizal, Clive M. Jones, Syahrul, Mike Rimmer
GRADUAL REPLACEMENT OF FRESH FEED WITH FORMULATED DIET FOR SPINY LOBSTER *Panulirus* spp. WEANING

- 14:10** **Hidayat Muhammad**, Clive Jones
ASSESSMENT OF PUERULUS CONDITION OF *Panulirus homarus* AND *P. ornatus* IN RELATION TO AQUACULTURE IN INDONESIA
- 14:30** **Syafrizal**, Idat Galih Permana, Nur Bambang, Clive Jones
EFFECT OF FEEDING FREQUENCY ON SURVIVAL AND GROWTH OF JUVENILE BAMBOO SPINY LOBSTER *Panulirus versicolor* IN INDONESIA
- 14:50** **Audrey Daning Tuzan**, Quinn P. Fitzgibbon, Chris G. Carter, Stephen C. Battaglione
HOW DOES PHYSIOLOGICAL AND MORPHOLOGICAL TRAITS AND SOCIAL INTERACTION EFFECT GROWTH PERFORMANCE OF SPINY LOBSTER IN CAPTIVITY?
- 15:10** **Shengkang Li**, Wanwei Sun, Xinxu Zhang, Xiaobo Wen
TRAF6 PARTICIPATES IN THE EXPRESSIONS OF ALFs IN MUD CRAB *Scylla paramamosain*
- 15:30** **BREAK**
- 16:00** **Xinxu Zhang**, Shengkang Li
MICROBIOME DYNAMICS OF MUD CRAB *Scylla paramamosain* FOLLOWING MOLTING
- 16:20** **Chaoshu Zeng**, Nicholas Romano
COMPARATIVE STUDIES ON OSMOREGULATORY CAPACITIES OF TWO COMMERCIALY IMPORTANT PORTUNID CRABS: IMPLICATOINS FOR AQUACULTURE

LARVICULTURE AND LIVE-FEED

Tuesday, July 25 11:10 - 17:20 Kelantan
Chairs: Shunsuke Koshio, Natrah Fatin Mohd Ikhsan

- 11:10** **Patrick Sorgeloos**, Peter De Schrijver, Peter Bossier, Geert Rombaut
IMPROVING THE HEALTH STATUS OF FISH AND CRUSTACEAN LARVAE BY COMBINING MICROBIAL AND STRESS MANAGEMENT
- 11:30** **Patrick Lavens**, Roeland Wouters, Dirk Grymonpre, Celine De Maesschalck, Virginia Calabuig, Pieter Joos, Anamaria Reckecki, Phuthongphan Rattayaporn, Geert Rombaut, Eddy Naessens
AN INTEGRATED APPROACH WITH FOCUS ON LARVAL FEED DEVELOPMENT, FEEDING STRATEGIES AND ROBUSTNESS FOR THE PRODUCTION OF HIGH-QUALITY SHRIMP POSTLARVAE: STRETCHING THE BALANCE BETWEEN EXPERIMENTAL FEEDS AND *Artemia*
- 11:50** **Peter Van Wyk**, Chris Stock, Ramir Lee, Satya Murthy, Diego Flores, Craig Browdy
OVERCOMING THE ARTEMIA BOTTLENECK: CAN *Artemia* NAUPLII BE REPLACED IN LARVAL SHRIMP DIETS?
- 12:10** **Yukinori Mukai**, Muhammad Mu'izzuddin Afandi, Normawaty Mohammad Noor
CULTIVATION OF INFUSORIA AS A STARTER LIVE FEED FOR MARINE FINFISH LARVAE
- 12:30** **LUNCH**

- 13:50 Mahadevi Nagralli**, S. Felix, Mangesh M. Bhosle, Cheryl Antony
OUTDOOR CONTINUOUS CULTURE SYSTEM BASED MASS PRODUCTION TECHNIQUE FOR CLADOCERANS *Moina micrura*
- 14:10 Adibah Shakri**, Fatimah Md. Yusoff, Intan Safinar Ismail
EFFECTS OF CYANOBACTERIA *Microcystis* spp. ON THE POPULATION GROWTH AND REPRODUCTIVE CAPACITY OF A CLADOCERAN *Moina micrura* (KURZ, 1984)
- 14:30 Mangesh M. Bhosale**, S. Felix, Mahadevi Nagralli, Cheryl Antony
MASS PRODUCTION OF ROTIFERS *Branchionus calyciflorus* IN OUTDOOR CULTURE SYSTEM FOR AQUACULTURE
- 14:50 Shariza Azizan**, Natrah Fatin Mohd Ikhsan
QUORUM SENSING INHIBITOR FROM ROTIFER *Brachionus plicatilis* AS BIOCONTROL AGENTS IN AQUACULTURE
- 15:10 Azaharie Anuar**, Fui Fui Ching, Shigeharu Senoo
MORPHOLOGICAL AND BEHAVIOURAL CHANGES OF F2 HYBRID TIGER GROUPER *Epinephelus fuscoguttatus* × GIANT GROUPER *E. lanceolatus* LARVAE AT EARLY STAGE
- 15:30 BREAK**
- 16:00 Arlyn Mandas**, Analyn Baldove, Jhumar Jamis, Joseph Morada, Valeriano Corre, Jerome Genodepa, Konrad Dabrowski
GROWTH PERFORMANCE OF AFRICAN CATFISH *Clarias gariepinus* LARVAE AT VARIOUS FEEDING REGIMES IN CONTINUOUS SALINE AND DARK CONDITIONS
- 16:20 S.M. Nurul Amin**, Mohd Hazmadi Zakaria, Aziz Arshad
EMBRYONIC AND EARLY LARVAL DEVELOPMENT OF HYBRID BETWEEN LAMPAM ♀ *Puntius gonionotus* × KERAI ♂ *Hypsibarbus wetmorei*
- 16:40 Siti Fairus Mohamed Yusoff**, Annie Christianus, Hassan Mohd Daud, Yuzine Esa, Muhammad Fadhil Syukri Ismail
COMPARISON ON EMBRYONIC AND LARVAL DEVELOPMENT OF *Pangasianodon hypophthalmus* (SAUVAGE, 1878) AND *Pangasius nasutus* (BLEEKER, 1863)

MARKETING AND TRADE

Tuesday, July 25 11:10 - 17:20 Penang
Chairs: Emmanuelle Bourgois, Mazuki Hashim

TUESDAY

- 11:10 Emmanuelle Bourgois**
SUSTAINABILITY AND COMPLIANCE SOLUTIONS FOR ASIAN AQUACULTURE
MARKET/VALUE CHAIN: INTRODUCING VERIFIK8
- 11:30 TBA**
- 11:50 Kevin Fitzsimmons, Soe Tun, Kay Lwin, May (Noe Noe) Lwin**
ENVIRONMENTAL IMPROVEMENT IN SOUTH EAST ASIA AQUACULTURE: THE
SUCCESS STORIES, CHALLENGES AND FUTURE INSIGHTS
- 12:10 Gabriel Ataguba, Manoj Kamble, Pau Badia, Flavie Denelle, Emmanuelle Bourgois,
Salin Krishna**
SUSTAINABLE AQUACULTURE: BENCHMARKING STANDARDS, IMPROVING
CERTIFICATION
- 12:30 LUNCH**
- 13:50 Nashila Rahmaniya, Mini N. Sekharan**
CONSUMER PREFERENCES OF SEAFOOD IN BELGIUM, SPAIN AND ITALY TO
UNDERSTAND THE NEEDS OF THE MARKET
- 14:10 Friday G. Ogbe, Unekwu Onuche, Ufedo M. Shaibu**
AN ASSESSMENT OF CONSTRAINTS TO AQUACULTURE PRODUCTION IN NORTH
CENTRAL, NIGERIA
- 14:30 Indah Susilowati, Rizky Wilfrida Valentine, Mudjahirin Thohir**
WIFE'S ADAPTATION STRATEGY IN SECURING HOUSEHOLD ECONOMY OF FISHERS
IN SUNGAI WAY TULANG BAWANG, TULANG BAWANG REGENCY, LAMPUNG,
INDONESIA
- 14:50 Oai Li Chen, Madan Mohan Dey**
RETAIL MARKETS FOR CHILLED AND FROZEN FINFISH IN THE UNITED STATES:
MARKET CONCENTRATION AND IMPLICIT PRICES OF PRODUCT ATTRIBUTES
- 15:10 Yukichika Kawata**
FISH BRAND CREATIONS: PROGRESSIVE AQUACULTURAL APPROACHES THAT
CONTRIBUTE TO REGIONAL DEVELOPMENT
- 15:30 Veena Soni**
STATUS OF RESOURCE MANAGEMENT AND AQUACULTURE IN MALAYSIA

WEDNESDAY, July 26

SOCIO-ECONOMICS

Wednesday, July 26 8:30 - 10:10 Penang

Chairs: Emmanuelle Bourgois, Nitty Hirawaty Kamarulzaman

- 8:30** **Hasanuddin Hasan**, Muslim Chuet, Joanne Millar, Michael Rimmer
SOCIO-ECONOMIC IMPACTS OF ADOPTION OF BRACKISHWATER TILAPIA
Oreochromis niloticus CULTURE BY POND FARMERS IN ACEH PROVINCE, INDONESIA
- 9:10** **Cholida Nia**, Nur Lindrianti, Putra Prasetyo, Yermianto Puspito, Indah Susilowati
THE ROLE OF FISHER'S WIFE TO SECURE THE HOUSEHOLD ECONOMY IN
MORODEMAK FISHING COMMUNITY – CENTRAL JAVA PROVINCE, INDONESIA:
BREAKING THROUGH THE FRONTIER
- 9:50** **Emmanuelle Bourgois**
ADDRESSING LABOUR ISSUES IN THE SOUTHEAST ASIAN SEAFOOD SUPPLY CHAIN

MARINE SHRIMP - CONTINUED

Wednesday, July 26 8:30 - 12:20 TDI A

Chairs: Farshad Shishehchian, Fariduddin bin Othman

BLUE AQUA

- 8:30** **Maarten Jay van Schoonhoven**, Dang Thi Hoang Oanh
SHRIMP *L. vannamei* CHALLENGED WITH EMS/AHPND CAUSING BACTERIA AND THE
EFFICACY OF CLAY, ALGAE AND COPPER PREMIX ON THE HEALTH PERFORMANCE
- 8:50** **Alberto Nunes**, Hassan Sabry-Neto, Adhemar Oliveira-Neto, Karthik Masagounder
MULTIPLE FEEDINGS IMPROVE GROWTH PERFORMANCE OF JUVENILE *Litopenaeus*
vannamei REARED UNDER INTENSIVE CONDITIONS
- 9:10** **John Knights**, Mark Sceats
YIELD IMPROVEMENTS IN SHRIMP AND PRAWN GROW OUT UTILIZING A NEW
MINERAL-BASED TECHNOLOGY
- 9:30** **Lakshmbai Vasanthakumari Bindhu**, Chinnadurai Sugumar
EFFICIENT REPLACEMENT OF LECITHIN IN WHITE SHRIMP *Litopenaeus vannamei*
DIETS WITH LYSOFORTE DRY (LYSOLECITHIN) SUPPLEMENTATION
- 9:50** **Asda Laining**, Dony Prasetyo, Oman Agus Sudrajat
INJECTION OF OOCYTE DEVELOPER ENHANCED GONADAL MATURATION OF WILD
MALE TIGER SHRIMP *Penaeus monodon* AGAINST EYE STALK ABLATION

WEDNESDAY

10:10 **BREAK**

10:40 **Rui Alexandre Gonçalves**, Dian Schatzmayr, Michele Muccio, João Sendão
SENSITIVITY OF *Litopenaeus vannamei* TO FUSARIUM MYCOTOXINS: THE TOXICITY OF LOW DOSE OF FUMONISINS AND DEOXYNIVALENOL AND ITS ACCUMULATION IN CLOSED SYSTEMS

11:00 **Amina Moss**, Shunsuke Koshio, Manabu Ishikawa, Saichiro Yokoyama, Truong Nhu, Mahmoud Dawood, Weilong Wang
REPLACEMENT OF SQUID AND KRILL MEAL BY SNAIL MEAL *Buccinum striatissimum* IN PRACTICAL DIETS FOR JUVENILE KURUMA SHRIMPS *Marsupenaeus japonicus*

11:20 **K. Habeeb Rahaman**, B. Senthil Kumar
EFFECTS OF PRO YG TABLETS ON GROWTH PERFORMANCE, SURVIVAL RATE AND VIBRIO CONTROL OF *Litopenaeus vannamei* CULTURE PONDS

AQUATIC ANIMAL HEALTH – CONTINUED

Wednesday, July 26 8:30 - 12:20 THO B

Chairs: Melba Reantaso, Mohamed Shariff

8:30 **Chen Su**, Yun-Chieh Hsieh, Wei Lu, Li-Juan Ma, Chuan-Fu Tsai, Yi-Miao Chen
THE DIAGNOSTIC AND TREATING STRATEGIES OF EHP – AN EXAMPLE FROM A CHINESE SUPER-INTENSIVE FARMING SYSTEM

8:50 **Si Mon Ong**, Sheau Yen Chin, Virna Fe Encio
EARLY ENHANCEMENT OF IMMUNO-RESPONSE IN SHRIMP INCREASES ITS ABILITY TO RESIST DISEASES

9:10 **Dunhua Zhang**, De-Hai Xu, Craig Shoemaker, Benjamin Beck
PATHOGENICITY OF *Aeromonas hydrophila* AND PATHOGENESIS OF MOTILE AEROMONAS SEPTICEMIA IN CHANNEL CATFISH *Ictalurus punctatus*

9:30 **Grace Honorio Mones**, Isagani Angeles
PERFORMANCE OF RED TILAPIA *Oreochromis* sp. FED DIET WITH FERMENTED BANANA *Musa acuminata* × *balbisiana* PEEL AT DIFFERENT STAGES OF RIPENESS CHALLENGED WITH *Aeromonas hydrophila*

10:10 **BREAK**

10:40 **Ram C. Bhujel**, Anusha Perera, Antonia Tacconi, Rui A. Gonçalves
EFFECT OF BIOTRONIC TOP LIQUID ON GROWTH PERFORMANCE AND DISEASE RESISTANCE IN NILE TILAPIA *Oreochromis niloticus*

11:00 **Pattareeya Ponza**, Supachok Songsiri, Kankanit Pisamayaron, Thuchapol Karaket, Supat Ponza
EFFECT OF HERBAL BIOEXTRACT ON SURVIVAL RATE OF NILE TILAPIA FINGERLINGS INJECTED WITH *Aeromonas hydrophila*

PRODUCTION SYSTEMS – CONTINUED

Wednesday, July 26 8:30 - 12:20 Johor

Chairs: Mike Rimmer, Ridzwan Abd Rahman

- 8:30** **Milennie Sumbing**, Sujjat Azad, Abentin Estim, Saleem Mustafa
GROWTH PERFORMANCE OF SPINY LOBSTER *Panulirus ornatus*, SEA CUCUMBER *Holothuria scabra* AND SEAWEED *Kappaphycus alvarezii* IN INTEGRATED MULTI-TROPHIC AQUACULTURE SYSTEM
- 8:50** **Early Septiningsih**, Andi Sahrijannah
THE INFLUENCE OF VARITIAN TIME WATER QUALITY OF INTEGRATED SHRIMP CULTURE SYSTEM IN WEST SULAWESI, INDONESIA
- 9:10** **Benben Song**
LINDE AQUACULTURE SOLUTIONS FOR HEALTHY FISH – EQUIPMENT PORTFOLIO

WEDNESDAY

AMINO ACID NUTRITION IN AQUACULTURE

Wednesday, July 26 8:30 - 12:20 TDI B

Chairs: Dhanapong Sangsue, Mohd Salleh Kamarudin



- 8:30** **Richard Smullen**, Michael Salini, Simon Tabrett, Mark Booth, Simon Irvin, David Blyth, Barney Hines, Sue Cheers, Nicholas Bourne, Cedric Simon
A CAUTIONARY TALE FOR FORMULATORS – HOW ENVIRONMENTAL OR FARMING CONDITIONS MIGHT NEGATIVELY IMPACT DIET PERFORMANCE EVEN WHEN THEY UTILISE PREMIUM QUALITY RAW MATERIALS: THE EFFECT OF RESTRICTED FEEDING ON PERFORMANCE OF ASIAN SEABASS *Lates calcarifer*
- 8:50** **Dominique Bureau**, Guillaume Pfeuti
A CRITICAL LOOK AT ESTIMATES OF APPARENT DIGESTIBILITY OF PROTEIN AND AMINO ACIDS
- 9:30** **Karthik Masagounder**
AMINO ACID NUTRITION OF NILE TILAPIA: A REVIEW OF AVAILABLE DATA AND PROGRESS IN MODELLING APPROACH
- 9:50** **Leong-Seng Lim**, Rossita Shapawi, Gunzo Kawamura
AMINO ACIDS AS FEEDING STIMULANT IN THE DEVELOPMENT OF SOYBEAN-BASED DIET FOR JUVENILE GROUPER *Epinephelus fuscoguttatus*
- 10:10** **BREAK**
- 10:40** **Alexandros Samartzis**, Cláudia Figueiredo-Silva
SHORT REVIEW OF THE NUTRITIONAL VALUE OF DIFFERENT METHIONINE SOURCES IN FISH

- 11:00** **Bundit Yuangsoi**, Narissara Suratipand, Dhanapong Sangsue
ASSESSMENT OF DIGESTIBILITY OF SELECTED FEED INGREDIENTS FOR FINGERING SNAKEHEAD FISH *Channa striata* USING *IN VIVO* AND *IN VITRO* METHODS
- 11:20** **Brett D. Glencross**
MODELLING THE APPLICATION OF THE IDEAL PROTEIN CONCEPT IN FISH AND SHRIMP
- 11:40** **Orapint Jintasataporn**, Cláudia Figueiredo-Silva, Dhanapong Sangsue
EFFECT OF AQUAVI® MET-MET SUPPLEMENTATION ON THE SUCCESS OF REDUCING FISHMEAL LEVELS IN DIETS FOR SHRIMP REARED IN GREEN WATER CONDITIONS
- 12:00** **Dhanapong Sangsue**
A BETTER UNDERSTANDING OF PROTEIN AND AMINO ACID NUTRITION CAN POTENTIALLY IMPROVE QUALITY AS WELL AS COST SAVINGS OF VANNAMEI FEED

AQUACULTURE BIOTECHNOLOGY

Wednesday, July 26 8:30 - 12:20 Melaka
Chairs: Jesu Arockiaraj, Mohd. Effendy Abd Wahid

- 8:30** **Mohd. Effendy Abd. Wahid**
INDUCING INNATE PROTECTION IN GREEN MUSSELS BY MANIPULATION OF HEAT SHOCK TREATMENTS
- 8:50** **A. Jesu Arockiaraj**
THERAPEUTIC APPLICATIONS OF INNATE IMMUNE MOLECULES AND THEIR DERIVED PEPTIDES FROM AQUATIC ANIMALS
- 9:10** **Jutta Kessering**, Barbara Weber
DIFFERENT *Bacillus* spp. ISOLATES VARY IN THEIR BIOREMEDIATION CAPACITY
- 9:30** **Imron Nawawi**, Khairul Syahputra
SINGLE NUCLEOTIDE POLYMORPHISMS OF GROWTH HORMONE GENE IN THREE PANGASIID SPECIES: *Pangasionodon hypophthalmamus*, *Pangaisus Jambal* AND *Pangasius nasutus*
- 9:50** **Haslawati Baharuddin**, Mohammed Rizman Idid, Mohd Zakaria Ismail, Sekaran Muniandy
PHYLOGENETIC RELATIONSHIPS OF PANGASIIDS (TELEOSTEI: PANGASIIDAE) IN PENINSULAR MALAYSIA BASED ON MITOCHONDRIAL DNA 16S rRNA AND CYTOCHROME OXIDASE I PARTIAL GENE SEQUENCE
- 10:10** **BREAK**
- 10:40** **Harlina Usman**, Rosmiati, Syahrul Jafar, Sukmawati, Nurhidayah
THE ROLE OF *Chromolaena odorata* BIOACTIVE COMPOUND IN ARTIFICIAL FEED FOR INCREASING OF *Penaeus monodon* SURVIVAL RATE AND GROWTH
- 11:00** **Nur Ain Yahya**, Natrah Fatin M. I.
INHIBITION OF QUORUM SENSING BY BACTERIA FROM MARINE MICROALGAE
- 11:20** **A.W.M. Effendy**, Aleng Nor Afiqah, Sung Yeong Yik
INDUCING INNATE PROTECTION IN GREEN MUSSELS BY MANIPULATION OF HEAT SHOCK TREATMENT

ORNAMENTALS

Wednesday, July 26 8:30 - 12:20 THO A
Chairs: Shettapong Meksumpun, Annie Christianus

- 8:30** **Maryam Jorjani**, Amin Mirhashemi Rostami, Mostafa Sharifrohani, Tayebeh Enayat Golampour, Koroush Amini, Aileen Tan Shau Hwai
THE EFFECTS OF CHINA ROSE POWDER CONCENTRATIONS ON THE INCREASING NUMBER OF CHROMATOPHORES IN ORNAMENTAL FISH BLUE GOURAMI
Trichogaster trichopterus
- 8:50** **Hossein Khara**, Ahmad Termeh Yousefi, Mohaddeseh Ahmadnezhad
EVALUATION OF AMMONIA EFFECT ON BLOOD PARAMETERS, STRESS, AND GILL HISTOLOGY OF THE BANDED CICHILID *Heros severus*
- 9:10** **Mohamad Saupi Ismail**, Muhammad Fadzil Harun
CAPTIVE BREEDING AND REARING OF THE BIG-BELLY SEAHORSE *Hippocampus abdominalis*
- 9:30** **Christopher Marlowe Caipang**, Benjamin Quek, Clara Lay-yag, Sakinah Mulyana
POTENTIAL USE OF CINNAMON *Cinnamomum* sp. AS PHYTOBIOTICS FOR ORNAMENTAL FISH
- 9:50** **Mohaddeseh Ahmadnezhad**, Mohammad Sayyad Bourani, Sohrab Dajandiyani, Alireza Valipour, Ali Asghar Khanipour, Homayoun Hosseinzadeh sahafi, Hossein Khara
THE EFFECT OF MOBILE PHONES WAVES ON THE LEVEL OF GTH II IN ANGEL FISH *Pterophyllum scalare* BROODERS
- 10:10** **BREAK**
- 10:40** **Hossein Khara**, Ahmad Termeh Yousefi, Mohaddeseh Ahmadnezhad
EVALUATION OF THE EFFECT OF SUBACUTE STRESSES ON BLOOD PARAMETERS, STRESS, AND GILL HISTOLOGY OF THE BANDED CICHILID *Heros severus*
- 11:00** **Annie Christianus**, Muhamad Syafiq Zulkifle
SPAWNING AND CULTURE OF LICORICE GOURAMI *Parosphromenus alfredi* (KOTTELAT & NG, 2005) UNDER LABORATORY CONDITION

GENERAL AQUACULTURE

Wednesday, July 26 8:30 - 12:20 Kelantan
Chairs: Jahangir Alam, Abdullah Abd Rahim

- 8:30** **Seyed Amin Mirhashemi Rostami**, Kourosh Amini, Maryam Jorjani
PARAMETERS ASSOCIATED WITH THE STRIPED GREY MULLET *Mugil cephalus* L. FRIES MORTALITIES IN IRAN
- 8:50** **Amani A. Alsayed**, A. Arshad, S.M. Nurul Amin
POPULATION PARAMETERS OF *Parapenaeopsis sculptilis* (DECAPODA: PENAEIDAE) IN THE COASTAL WATERS OF TERONG, PERAK, MALAYSIA
- 9:10** **Seong Lee Neoh**, Su Shiung Lam, Tse Seng Chuah
OCEAN MINERALS: EARTH'S ELEMENT SOUP – ITS PRODUCTION AND USE IN AQUACULTURE

- 9:30** **Rui A. Goncalves**, Ursula Hofstetter, Dian Schatzmayr
MYCOTOXINS IN SE ASIA AQUACULTURE PLANT-BASED MEALS
- 9:50** **Mohammad Sayyadbourani**, Saltanat Najar Lashgari, Sharam Ghasemi, Mohadese Ahmadnejad, Morteza Nikpour
STUDIES OF CASPIAN TROUT GROWTH *Salmo trutta caspius* BY BACK-CALCULATED FISH LENGTHS METHODS
- 10:10** **BREAK**
- 10:40** **Amal Khafage**, Somaya Taha
FIRST RECORD OF THE GENUS XIPHOPENAEUS (SMITH, 1869), THE ATLANTIC AND PACIFIC SEABOB SHRIMP *Xiphopenaeus kroyeri* (HELLER, 1862) AND *Xiphopenaeus riveti* (BOUVIER, 1907) (DECAPODA, PENAEDIAE) SOUTH EASTERN MEDITERRANEAN COAST OF EGYPT
- 11:00** **Anthony Mcayany**
EFFECTIVENESS OF FISH CAGE FARMING IN KENYA-LAKE VICTORIA
- 11:20** **Marco Montagnoli**
INTRODUCING Maccaferri KikkoNet, AN EXCELLENCE MADE IN MALAYSIA AND USED IN CAGE AQUACULTURE WORLDWIDE
- 11:40** **Suphachok Songsiri**, Pattareeya Ponza, Supat Ponza
UTILIZATION OF *Durio zibethinus* RIND CRUDE EXTRACTION FOR IMMUNOSTIMULATION AGAINST BACTERIAL CHALLENGE IN NILE TILAPIA *Oreochromis niloticus*

MOLLUSC CULTURE

Wednesday, July 26 10:40 - 12:20 Perak
Chair: Chao Shu Zeng, Nicholas Romano

- 10:40** **Mieke Eggermont**, Pieter Cornillie, Nancy Nevejan, Peter Bossier, Manuel Dierick, Dominique Adriaens, Patrick Sorgeloos, Tom Defoirdt, Annelies Declercq
HEMOLYMPH EXTRACTION UNDER THE LENSE: VISUALIZATION OF THE CARDIOVASCULAR SYSTEM OF THE BLUE MUSSEL *Mytilus edulis*
- 11:00** **Mieke Eggermont**, Peter Bossier, Gde Sasmita Julyantoro Pande, Vyshal Delahaut, Ali Md. Rayhan, Nipa Gupta, Shikder Saiful Islam, Elsie Yumo, Nancy Nevejan, Patrick Sorgeloos, Bruno Gomez-Gil, Tom Defoirdt
ISOLATION OF VIBRIONACEAE FROM WILD BLUE MUSSEL *Mytilus edulis* ADULTS AND THEIR IMPACT ON BLUE MUSSEL LARVICULTURE
- 11:20** **Yongwen Gao**
STABLE ISOTOPE ANALYSES ON CARBONATE SHELLS OF CULTURED GEODUCK IN NEAH BAY, WASHINGTON
- 11:40** **Hebert Ely Vasquez**, Xing Zheng, Aimin Wang
LOCOMOTION IN JUVENILES OF THE WINGED PEARL OYSTER *Pteria penguin*: EFFECT OF LIGHT AND OYSTER SIZE

ENVIRONMENT AND BIODIVERSITY

Wednesday, July 26 10:40 - 17:20 Penang

Chairs: Guillaume Drillet, Debashish Mazumder, Gopinath Nagaraj

- 10:40** **Debashish Mazumder**, Fatimah Md. Yusoff
ENHANCING AQUACULTURE ENVIRONMENT FOR SUSTAINABLE GROWTH OF INDUSTRY: ROLES OF ECOLOGICAL DIVERSITY, STABILITY AND RESILIENCE
- 11:20** **Mubarak Eisa Abdelrahman Tibin**, Abdalla Nassir E.A.
CURRENT STATUS AND SUSTAINABILITY ISSUES OF MARINE RESOURCES AND BIODIVERSITY IN SUDANESE NATIONAL RED SEA WATER
- 11:40** **Tony Chiffings**, Melissa Mary Mathews, Tania Golingi, Felix Ku Kok Hou, Marjorie Lim
ENVIRONMENTAL RISK ASSESSMENT AND MANAGEMENT PLANNING: A CASE STUDY
- 12:00** **Hadzley Harith**, Mohd Lokman Husain, Mohd Fadzil Mohd Akhir
STUDY ON BOTTOM TEMPERATURE CONDITION ASSOCIATED WITH BLOOD COCKLE *Anadara granosa* INDUCE SPAWNING AFFECTED BY THERMAL PLUME DISCHARGE FROM NEARBY THERMAL POWER STATION IN KAPAR, SELANGOR
- 12:20** **LUNCH**
- 13:50** **Aurore Trotter**
CARRYING CAPACITY ASSESSMENT OF A COASTAL ECOSYSTEM FOR MUSSEL AQUACULTURE
- 14:10** **Masamichi Nakajima**, Muhammad F.B. Yusof, Gyo Kawada, Masato Watanabe, Shigehiko Izumi
mtDNA MUTATION OBSERVED IN MASU SALMON COLLECTED IN FUKUSHIMA
- 14:30** **Tarunamulia**, Akhmad Mustafa, Hasnawi
EXPLORING BIOPHYSICAL AND MANAGEMENT CHALLENGES OF SMALL-SCALE SHRIMP FARM CLUSTERS IN INDONESIA USING FINE-SCALE GEOSPATIAL INFORMATION AND ANALYSIS
- 14:50** **Debashish Mazumder**, Jesmond Sammut, Angela Liu, Michael Dove, Elizabeth Fabian, Karthik Gopi
ISOTOPES FOR AQUACULTURE
- 15:10** **Niken Gusmawati**, Benoît Soulard, Nazha Selmaoui-Folcher, Christophe Proisy, Akhmad Mustafa, Romain Le Gendre, Thierry Laugier, Hugues Lemonnier
MONITORING POND ACTIVITY USING VHSR IMAGES: CASE STUDY PERANCAK ESTUARY, BALI, INDONESIA
- 15:30** **BREAK**
- 16:00** **Shahunthala D. Ramachandran**, Ahmad Nawab Arshad, Pauzi Ahmad, Kamaruzaman Ismail
ISSUES RELATED TO BLOOD COCKLE *Anadara granosa* MORTALITY IN WEST COAST OF PENINSULAR MALAYSIA
- 16:20** **Jay Dev Bista**, Akbal Husain, Ram Kumar Shrestha
IMPACT OF CLIMATE CHANGE TO FISHERIES MANAGEMENT IN LAKES OF POKHARA VALLEY, NEPAL

WEDNESDAY

NUTRITION AND AQUAFEEDS – CONTINUED

Wednesday, July 26 13:50 - 17:20 TDI B

Chairs: Wee Kok Leong, Roshada Hashim

WEDNESDAY

- 13:50** **Guillaume Daoulas**
GROWTH PERFORMANCE
- 14:10** **Alireza Valipour**, Hamideh Kordi, Alireza Shenavar Masouleh, Mahmoud Hafezieh
THE EFFECT OF IRON NANOPARTICLES ON GROWTH AND SURVIVAL OF RAINBOW TROUT *Oncorhynchus mykiss*
- 14:30** **Nur Hidayahanum Hamid**, M.D. Hassan, A.H. Hasliza, M.Y. Md Sabri, H. Ruhil Hayati, M.Y. Siti Fairus, M. Nora Faten Afifah, A.B. Siti Nadia
STUDY ON GROWTH PERFORMANCE IN JUVENILE AFRICAN CATFISH *Clarias gariepinus* (BURCHELL, 1822) FED WITH PROBIOTICS SUPPLEMENTED DIETS
- 14:50** **Isagani Angeles**, Joden Quinto, Wilbur Dubon, Yew-Hu Chien
PERFORMANCE CHARACTERISTICS OF NILE TILAPIA *Oreochromis niloticus* FED DIET WITH REGULAR AND PHYTASE-TREATED CORN-DISTILLER'S DRIED GRAIN WITH SOLUBLES (DDGS) FOLLOWING AMMONIA STRESS
- 15:10** **Abd El-Naem Zidan**, Ashraf Suloma, Rania Mabroke, Osama Elhouseiny
IMPROVEMENT OF THE NUTRITIONAL VALUE OF NILE TILAPIA USING FINISHER DIETS
- 15:30** **BREAK**
- 16:00** **Mohammed A. Hossain**, Khaled Al-Abdul-Elah, Saleem El-Dakour
IMPROVEMENT OF NUTRITIONAL QUALITY OF CULTURED SEA BREAM *Sparidentex hasta* MUSCLE BY PREHARVEST FEEDING TECHNIQUE USING FINISHER FEEDS
- 16:20** **Yongqing Ye**, Xiaoxi Luo
COMPREHENSIVE EXPLOITATION AND UTILIZATION OF DEFATTED RICE BRAN IN AQUATIC FEED

THE ADVANCED RESEARCH DEVELOPMENT ON SHRIMP CULTURE

Wednesday, July 26 13:50 - 17:20 THO A

Chair: Shi-Yen Shiau, Chu-Fang Lo



SHENG LONG

- 13:50** **Tran Huu Loc**, Grace Chu-Fang Lo, Vy Van Nguyen, Phuc Hoang, Trang Nguyen
DEVELOPMENT OF AN INFECTION MODEL FOR THE WHITE FECES DISEASE ON
WHITELEG SHRIMP *Penaeus vannamei*
- 14:10** **Han-Ching Wang**, Chu-Fang Lo
ESTABLISHING THE BIOSECURITY SYSTEM FOR SHRIMP AQUACULTURE INDUSTRY
- 14:50** **Yu-Hung Lin**
EVALUATION OF BILE SALT AS CHOLESTEROL REPLACER IN DIET FOR WHITE SHRIMP
- 15:30** **BREAK**
- 16:00** **Luosheng Cui**
APPLICATION OF FERMENTED FEED ON SHRIMP CULTURE
- 16:40** **Ming-Hsien Chen**
MANAGEMENT AND PRODUCTION OF GOOD QUALITY *Litopenaus vannamei* SEEDS

WEDNESDAY

TILAPIA HEALTH

Wednesday, July 26 13:50 - 17:20 THO B

Chair: Stephanie Steeves



MSD

Animal Health

- 13:50** **Stephanie Steeves**
LEADING WITH PREVENTION- MSD ANIMAL HEALTH'S ROLE IN REALIZING THE
POTENTIAL OF AQUACULTURE
- 14:10** **Yeng Sheng Lee**
BIOSECURITY PROTOCOLS: ESSENTIAL MEASURES FOR YOUR FARM
- 14:30** **Yeng Sheng Lee**
DIAGNOSTICS AND SAMPLING BEST PRACTICES TO POSITIVELY IDENTIFY DISEASES
- 15:10** **Win Surachetpong**
TILAPIA LAKE VIRUS: A NOVEL PATHOGEN THAT THREATEN WORLDWIDE TILAPIA
CULTURE HOW TO HANDLE A SITUATION?
- 16:00** **FRANK TAN**
THE EXPERIENCES OF USING TILAPIA *Streptococcus* VACCINES AS A BENEFICIAL
TOOL FOR DISEASE CONTROL AND PREVENTIVE MEASURES IN SINGAPORE
- 16:40** **Ting Cheong Ang**
TILAPIA: SUSTAINABLE AQUACULTURE PRACTICES

EU HORIZON PROJECT (EURASTIP)

Wednesday, July 26 13:50 - 17:20 Johor

Chairs: Marieke Reuver, Yeong Yik Sung

WEDNESDAY

- 13:50 Patrick Sorgeloos**
INTRODUCTION AND BRIEF HISTORY OF EU-FUNDED AQUACULTURE COOPERATION WITH ASIA
- 14:00 David Bassett**
EURASTIP: REINFORCING INTERNATIONAL COOPERATION ON SUSTAINABLE AQUACULTURE PRODUCTION BETWEEN THE EUROPEAN UNION AND COUNTRIES FROM SOUTH EAST ASIA
- 14:40 Richard Newton**, Dave Little, Chong Liu, Nhan The Dinh, Muhammad Rahman, Erik van Ballaer
ESTABLISHING NATIONAL MULTI-STAKEHOLDER PLATFORMS IN ASIA
- 15:30 BREAK**
- 16:00 Marieke Reuver**, Jean Dhont, John Bostock, Yeong Yik Sung
WP2 - INNOVATIVE EDUCATION, TRAINING AND CAPACITY BUILDING
- 16:20 Johan Verreth**
WP3 - ALIGNING STANDARDS AND CERTIFICATION
- 16:40 Mieke Eggermont**
WP4 - INCREASE EUROPEAN - ASIAN COLLABORATION
- 17:00 Discussion**

BIOLOGY AND PHYSIOLOGY

Wednesday, July 26 13:50 - 17:20 Melaka

Chairs: Bibha Kumari, Azmi Ambak

- 13:50 Hassan Morovvati**, Sara Fallah, Mehrzad Mesbah, Zahra Minoosh Siavash Haghghi, Amineh Arefi
COMPARATIVE HISTOMORPHOMETRICAL STUDY OF GILL IN MATURE AND IMMATURE SILVER CARP
- 14:10 Rahim Abdi**, Saeed Hasanzadeh, Mohammadali Salarialiabadi, Abdulali Movahedinia, Zahra Basir
COMPARATIVE HISTOMORPHOLOGY OF DIGESTIVE SYSTEM AND ENZYMES IN *Johnius belangerii*
- 14:30 Steven Gamble**, Igor Pirozzi
THE COMPARATIVE AEROBIC METABOLISM OF BARRAMUNDI *Lates calcarifer* AND BROWN-MARBLED GROUPER *Epinephelus fuscoguttatus*
- 14:50 I. Patrick Saoud**, Jessica Babikian, Nivin Nasser, Samer Monzer
EFFECT OF CANNABIS ON GROWTH AND METABOLISM OF NILE TILAPIA *Oreochromis niloticus*
- 15:10 Muhammad Aliyu Sulaiman**, Mohd Salleh Kamarudin, Mohammad Fadhil Syukri Ismail
EFFECTS OF CARBOHYDRATE SOURCES ON THE GROWTH, BODY COMPOSITION, INTESTINAL SHORT CHAIN FATTY ACIDS AND LIVER GLYCOGEN OF LEMON FIN BARB HYBRID

15:30 BREAK

16:00 Mohammad Sayyad Bourani, Hassan Magsoudieh Kohan, Mohadesse Ahmadnejad, Sohrab Dejandian
STUDY OF OSMOREGULATION TREND IN *Rutilus frisii kutum* EXPOSED TO CASPIAN SEA WATER

16:20 Seyed Amin Mirhashemi Rostami, Mansouri Behrooz
THE IMPACT OF THYROXIN HORMONE ON THE SURVIVAL, GROWTH AND DEVELOPMENTS OF IRANIAN STURGEON *Acipenser persicus* EGGS AND LARVAE

MACROBRACHIUM

Wednesday, July 26 13:50 - 17:20 Perak
Chairs: Peter Mathel, Aziz Arshad

13:50 Wee Wen Chen, Fatin Mohd Ikhsan Natrah, Nicholas Romano, Mahdi Ebrahimi
EFFECTS OF DIETARY PREBIOTIC FRUCTOOLIGOSACCHARIDE SUPPLEMENTATION ON GROWTH PERFORMANCE, HEPATOPANCREAS HISTOLOGY AND INTESTINAL SHORT-CHAIN FATTY ACIDS IN GIANT FRESHWATER PRAWN *Macrobrachium rosenbergii* POST-LARVAE

14:30 Md. Abdul Kader, Mahbuba Bulbul, Fauzani Mahmud
INTERACTIVE EFFECTS OF DIETARY PROTEIN LEVELS AND PROTEIN QUALITY ON GROWTH PERFORMANCE OF MALAYSIAN PRAWN *Macrobrachium rosenbergii*

14:50 Noordiyana Mat Noordin, Nik Nur Ayu Hafizah N. Kamaruzaman, Mhd. Ikhwanuddin Abdullah
TOWARDS DEVELOPMENT OF MICROBOUND DIET AND ITS APPLICATION ON LARVAL AND POST LARVAL OF FRESHWATER PRAWN *Macrobrachium rosenbergii*

15:10 Dessy Nurul Astuti, Fajar Anggraeni, Hary Krettiawan
LARVAL DEVELOPMENT OF THREE INDONESIAN POPULATION OF GIANT FRESHWATER PRAWN *Macrobrachium rosenbergii*

15:30 BREAK

16:00 Hary Krettiawan, Fajar Anggraeni
LARVAL FECUNDITY ON BASE POPULATION OF FAST GROWTH AND LATE MATURITY OF FEMALE GIANT FRESHWATER PRAWN *Macrobrachium rosenbergii*

16:20 Fajar Anggraeni, Hary Krettiawan, Asep Sopian, Huria Marnis, Khairul Syahputra, Imron
DNA MICROSATELLITE-BASED EVALUATION OF GENETIC DIVERSITY OF STRAIN GI MACRO II (GENETIC IMPROVEMENT OF MACROBRACHIUM II)

16:40 Mohamed Omer Elsheikh, Subha Bhassu
MULTIPLE-REGRESSION: A COMPREHENSIVE APPROACH FOR ANALYSIS OF WEIGHT-LENGTH RELATIONSHIPS IN *Macrobrachim rosenbergii*

17:00 Giva Kuppusamy
ALL-MALE PRAWN TECHNOLOGY FOR IMPROVED AQUACULTURE PERFORMANCE OF *Macrobrachim rosenbergii* IN MALAYSIA

ALGAE AND MACROPHYTES

Wednesday, July 26 13:50 - 17:20 Kelantan

Chairs: Gede S. Sumiarsa, Japar Sidik Bujang

WEDNESDAY

- 13:50** **Xing Zheng**, Le Li, Hebert Ely Vasquez, Zhifeng Gu, Aimin Wang
SIMPLIFIED METHOD TO MEASURE *Isochrysis galbana* CELL DENSITY IN THE HATCHERY
- 14:10** **Yam Sim Khaw**, Nicholas Mun Hoe Khong, Fatimah Md. Yusoff
DISTINCT BACTERIAL COMMUNITY ASSOCIATED WITH *Microcystis aeruginosa* (KÜTZING, 1846) CULTURED IN DIFFERENT CULTURE MEDIA AFFECTS THE CYANOBACTERIUM COLONY AND MORPHOLOGICAL PROPERTIES
- 14:30** **Gregory Guan Yuan Tan**, Sanjoy Banerjee, Helena Khatoon, Fatimah Md. Yusoff, Mohamed Shariff Mohamed Din
EFFECTS OF DIFFERENT LIGHT SPECTRUMS ON GROWTH AND PROTEIN CONTENT OF *Chaetoceros calcitrans*
- 14:50** **Ma'ruf Kasim**, Ahmad Mustafa, M. Muzuni, Wardha Jalil
GROWTH OF *Kappaphycus alvarezii* AND *Euclidean denticulatum* CULTIVATED IN FLOATING CAGES
- 15:30** **BREAK**
- 16:00** **Early Septiningsih**, Idham Misbah, Radjuddin Syamsuddin
EFFECT HIGH CONCENTRATION OF NITRATE AND AMMONIUM ON GROWTH RATES, PRODUCTION, CHLOROPHYLL AND CARRAGEENAN *Kappaphycus alvarezii*
- 16:20** **Normawaty Mohammad Noor**, Nor Salamah Muhamad Hidayat, Deny Susanti, Yukinori Mukai, Shahbudin Saad
BEST GROWTH CONDITION FOR *Gracilaria manilaensis* (RHODOPHYTA) UNDER DIFFERENT SALINITIES, pH AND LIGHT INTENSITIES AND IT'S TYPE OF CARRAGEENAN
- 16:40** **Keng C. Lim**, Fatimah M. Yusoff, Mohamed Shariff, Mohd S. Kamarudin
ACCUMULATION OF ASTAXANTHIN IN CHLOROPHYTES UNDER CULTURE MEDIUM-STARVED CONDITION
- 17:00** **Keng C. Lim**, Fatimah M. Yusoff, Mohamed Shariff, Mohd S. Kamarudin
GROWTH PERFORMANCE OF *Haematococcus lacustris* IN DIFFERENT CULTURE MEDIA

THURSDAY, July 27

SHRIMP HEALTH

Thursday, July 27 8:30 - 12:20 TDI A
Chairs: Farshad Shishehchian, Mohd. Faridudin, Kua Beng Chu

BLUE AQUA

THURSDAY

- 8:30** **Farshad Shishehchian**
BIOSECURITY IN SHRIMP FARMING
- 8:50** **Kua BC**
SHRIMP DISEASE IN MALAYSIA
- 9:30** **Orapint Jintasataporn**, Melina Aparecida Bonato, Glycon Duarte Santos,
Melina Aparecida Bonato, Glycon Duarte Santos
EFFECTS OF YEAST CELL WALL ON RESISTANCE AGAINST *Vibrio parahaemolyticus* IN
WHITE SHRIMP *Litopenaeus vannamei*
- 9:50** **Martin Guerin**, Hong Chen, Chungxiao Zhang
EFFECT OF DIETARY HYDROXY-SELENO-METHIONINE ON FEED PERFORMANCE,
SERUM BIOCHEMICAL INDICES, AND ANTIOXIDANT ABILITY IN WHITE SHRIMP
L. vannamei FED LOW- OR HIGH-LEVEL FISH MEAL DIETS
- 10:10** **BREAK**
- 10:40** **Zurong Wang**
MACROGARD: A POTENT IMMUNOMODULATOR IN MODERN SHRIMP PRODUCTION
- 11:00** **Lodewijk Rosseel**, Koen Blanchaert
EFFECT OF VDS FEED ADDITIVE MIX ON THE RESISTANCE OF *L. vannamei* TO WSSV
- 11:20** **Koen Blanchaert**, Lodewijk Rosseel
EFFECTS OF VDS FEED ADDITIVE MIX ON THE GROWTH PERFORMANCE OF
L. vannamei
- 11:40** **Ming Liu**, Qiufen Dong, Song Zhang, Yong Yang
KEY POINTS OF COMMERCIAL FEED FORMULATION FOR *Litopenaeus vannamei* IN
CHINA
- 12:00** **Yueling Zhang**, Zehui Zhang, Fan Wang
IDENTIFICATION OF HEMOCYANIN GLYCOSYLATED SITES FROM SHRIMP *Litopenaeus
vannamei* AND STUDY ON ITS CORRECTION WITH ANTIMICROBIAL FUNCTION

FUNCTIONAL FEEDS FOR DISEASE PREVENTION

Thursday, July 27 8:30 - 12:20 TDI B

Chairs: Peter Coutteau, Rossita Shapawi



THURSDAY

- 8:30 Prakan Chiarakhongman**
HEALTH MANAGEMENT AND FARM PRACTICES IN THAILAND
- 9:10 Maria Mercè Isern-Subich**, Sam Ceulemans, Peter Coutteau
FUNCTIONAL FEED ADDITIVES TO PREVENT FISH PARASITES
- 9:50 Loc Tran**, Phuc Hoang, Van Nguyen
PROPHYLACTIC APPROACHES IN REDUCING THE IMPACT OF ENTERIC BACTERIAL DISEASE ON *Penaeus vannamei*
- 10:10 BREAK**
- 10:40 Win Surachetpong**, Puntanat Tattiyapong, Taveesak Janetanakit, Nutthawan Nonthabenjawan, Alongkorn Amonsin
TILAPIA LAKE VIRUS: AN EMERGING PATHOGEN IN THAILAND
- 11:20 Yu-Hung Lin**, Jia-Jinn Mui
EFFECTS OF DIFFERENT DIETARY SOYBEAN MEAL LEVELS ON TISSUE CHOLESTEROL STATUS AND MOLTING RELATIVE GENE EXPRESSION IN WHITE SHRIMP *Litopenaeus vannamei*
- 11:40 Mary Joy Libatique**, Heidi Quiboyen
IMMUNOSTIMULATORY INFLUENCE AND DEVELOPMENT OF NON-SPECIFIC IMMUNITY OF NILE TILAPIA *Oreochromis niloticus* AGAINST *Aeromonas hydrophila* USING GARLIC

MARINE FINFISH

Thursday, July 27 8:30 - 12:20 Melaka

Chairs: Weiqun Lu, Faihanna Ching

- 8:30 Khaled Al-Abdul-Elah**, Mohammed Hossain, Sumito Akatsu
RECENT ADVANCES IN SILVER POMFRET *Pampus argenteus* CULTURE IN KUWAIT
- 8:50 Ching Fui Fui**, Anis Izzati Anwar, Nittaya Ainik, Mohammed Norfaiz Yusof, Shigeharu Senoo
WORTHLESS RECOVERY ATTEMPTS ON STUNTED GROWTH ASIAN SEABASS *Lates calcarifer* LARVAE
- 9:10 Mohd Addin Aazif**
MODERN INDUSTRIAL GROUPER FARMING IN LANGKAWI, MALAYSIA
- 9:30 Sandra Natalie Gudid**, Annita Yong Seok Kian, Gunzo Kawamura, Seng Lim Leong, Rossita Shapawi
CRUDE PALM OIL AS A DIETARY LIPID SOURCE IN THE PRACTICAL DIETS OF HYBRID GROUPER *Epinephelus fuscoguttatus* × *Epinephelus lanceolatus*
- 9:50 Igor Pirozzi**
NUTRITIONAL MOSELLING OF PROTEIN, AMINO ACID AND ENERGY REQUIREMENTS OF TIGER GROUPER *Epinephelus fuscoguttatus*
- 10:10 BREAK**

- 10:40** **Tin Han Chien**, Chih-Chan Wu, Tzong-Yueh Chen
CHARACTERIZATION OF GONAD DEVELOPMENT IN GROUPER WITH GONAD SPECIFIC MARKERS - PIWIL2 AND VASA
- 11:00** **Zhi Zhuang Tang**, Ting-Yu Wang, Tzong-Yueh Chen
CHARACTERIZATION OF TYPE 1 INTERFERON RECEPTOR (IFNR1) IN ORANGE-SPOTTED GROUPER *Epinephelus coioides*
- 11:20** **Chi-Yu Hsieh**, Yu-Lin Tsai, Young-Mao Chen, Tzong-Yueh Chen
CHARACTERIZATION OF I κ B POST-MODIFICATION DURING NODAVIRUS INFECTION IN ORANGE-SPOTTED GROUPER *Epinephelus coioides*

GENERAL INVERTEBRATES

Thursday, July 27 8:30 - 12:20 Perak
Chairs: Chao Shu Zeng, Md. Aminur Rahman

- 8:30** **Md Anisuzzaman**, Jin Feng, Jong-Kuk Choi, U-Cheol Jeong, Kabery Kamrunnahar, Hak Sun Yu, Seok-Joong Kang
EFFECTS OF NANNOCHLOROPSIS CONCENTRATION IN DIET ON GROWTH, SURVIVAL AND IL-10 PRODUCTION OF THE SEA CUCUMBER *Apostichopus japonicus*
- 8:50** **Sitti Raehanah Muhamad Shaleh**, Noor Adzlina Abidin, Fui Fui Ching, Rafidah Othman, Mabel Manjaji-Matsumoto, Shigeharu Senoo, Saleem Mustafa
GROWTH AND SURVIVAL OF THE SEA CUCUMBER *Holothuria scabra* LARVAE AT DIFFERENT FEEDING REGIMES
- 9:10** **Syed Zulfaqar**, M. Aminur Rahman, Fatimah Md. Yusoff, A. Arshad
REPRODUCTION BIOLOGY OF A COMMERCIALY IMPORTANT SEA CUCUMBER *Stichopus horrens* IN MALAYSIA: IMPORTANT INSIGHTS FOR AQUACULTURE DEVELOPMENT
- 9:30** **John M. Lawrence**
CONFLICT BETWEEN SOMATIC AND GONADAL GROWTH IN SEA URCHINS: IMPLICATIONS FOR AQUACULTURE
- 9:50** **Md. Shamim Parvez**, M. Aminur Rahman, Fatimah Md. Yusoff, Aziz Arshad
EFFECTS OF TEMPERATURE ON THE EMBRYONIC AND EARLY LARVAL DEVELOPMENT OF HIGH-VALUED TROPICAL SEA URCHIN *Tripneustes gratilla* (LINNAEUS, 1758)
- 10:10** **BREAK**
- 10:40** **Md. Aminur Rahman**, Fatimah Md. Yusoff, Aziz Arshad
EXPLORATION OF THE HIGH-VALUED MARINE BIORESOURCES IN THE INDO-PACIFIC AND THEIR EMERGING PROSPECTS, CULTURE POTENTIALS, CONSERVATION STRATEGIES AND BIOMEDICAL APPLICATIONS
- 11:00** **Merlyn Geromiano**, Jerome Genodepa
CHILLING TOLERANCE OF MUD CRAB *Scylla olivacea* JUVENILES
- 11:20** **Jerome Genodepa**, Merlyn Geromiano
INFLUENCE OF COOLING OF MUD CRAB JUVENILES IN ICE BATH ON SURVIVAL AND PHYSIOLOGICAL CHANGES DURING STORAGE

THURSDAY

RISK MANAGEMENT

Thursday, July 27 8:30 - 12:20 Kelantan

Chairs: Jorgen Schlundt, Kua Beng Chu

- 8:30** **Guillaume Drillet**, Mary S. Wisz, Youna Le Berre Lemaire-Lyons, Raphael Baumler, Ojaveer Henn, Melba G. Bondad-Reantaso, Jiamin Xu, Victoria Alday-Sanz, Justine Saunders, Chris J. McOwen, Hans E. Eikaas
POTENTIAL GAPS IN MANAGING THE RISK OF TRANSFER OF AQUACULTURE PATHOGENS VIA SHIPPING – THE NEED FOR CROSS SECTORIAL COOPERATION
- 9:10** **Stanley Serfling**
SEAFOOD INSPECTION PROCESS BY THE UNITED STATES FOOD AND DRUG ADMINISTRATION
- 10:10** **BREAK**
- 10:40** **Rui A. Goncalves**, Ursula Hofstetter, Dian Schatzmayr
MYCOTOXINS IN SE ASIA AQUACULTURE: A NEGLECTED THREAT?
- 11:00** **Jorgen Schlundt**
COMBINING RISK AND SUSTAINABILITY ASSESSMENT OF FUTURE AQUACULTURE

THURSDAY

STUDENT SEMINAR

Thursday, July 27 8:30 - 12:20 Penang

Chair: Bibha Kumari

- 8:30** **Shunsuke Koshio**
ENCOURAGEMENT OF STUDYING ABROAD – A CASE OF JAPAN
- 8:50** **Kevin Fitzsimmons**
PROFESSIONAL ADVANCEMENT THROUGH VOLUNTEER OPPORTUNITIES
- 9:10:** **Ram C. Bhujel**
AQUA-INTERNSHIP FOR ENHANCED EMPLOYABILITY
- 9:30:** **M. Shariff**
CAREER IN AQUACULTURE – THE SKY IS THE LIMIT
- 9:50** **Kabir Choudhury**
AQUACULTURE NUTRITION AS PROFESSION – A CHALLENGE WORTH TAKING
- 10:10** **BREAK**
- 10:40** **STUDENT WORKSHOP** - Chair: Bibha Kumari
Arlyn Mandas
Menaga Meenakshisundaram
Christaline George
Rui A. Goncalves
Tin Han Chien
Steven Gamble
Juli-anne Royes Russo
Serge Dossou
Mangesh Bhosle

FRESHWATER FISH CULTURE

Thursday, July 27 08:30 - 17:20 Johor

Chairs: Abdul Wahab, S M Nurul Amin

- 8:30** **Md. Abdul Wahab**, M. Ekramul Azim, M. Sharif Uddin
THE POTENTIAL FOR PERIPHYTON-BASED AQUACULTURE IN DIFFERENT PRODUCTION SYSTEMS IN BANGLADESH: A PROMISING TECHNOLOGY FOR LOW COST PRODUCTION
- 9:10** **S. M. Nurul Amin**, Afzan Muntaziana and Mohd Salleh Kamarudin
EVALUATION OF GROWTH PERFORMANCE AND PRODUCTION OF SNAKEHEAD *Channa striatus* (BLOACH 1793) IN RAS
- 9:30** **Qiufen Dong**, Taoping Zhang, Song Zhang, Yong Yang
SNAKEHEAD FISH FARMING PRATICE AND FEED TECHNOLOGY IN MAJOR ASIAN COUNTRIES
- 9:50** **Poh Soon Chan**, Kah Heng Liong
EFFECT OF DIETARY ENCAPSULATED BUTYRIC ACID (BUTIPEARL) ON THE GROWTH AND FEED UTILIZATION IN HYBRID CATFISH *Clarias macrocephalus* × *Clarias gariepinus*
- 10:10** **BREAK**
- 10:40** **Naga Kanmani**, Nicholas Romano, S.M. Nurul Amin, Mahdi Ebrahimi, Mohd Salleh Kamarudin
COMBINATION OF PRE-GELATIZED AND ISO-MALTOSE ON THE PELLET CHARACTERISTICS AND SUBSEQUENT EFFECTS ON THE FEEDING EFFICIENCIES AND NUTRITIVE VALUE OF AFRICAN CATFISH *Clarias gariepinus*
- 11:00** **Siti Ariza Aripin**, Orapint Jintasataporn, Ruangvit Yoonpundh
EFFECTS OF EXOGENOUS MELATONIN AND ZINC AMINO ACID IN MALE *Clarias macrocephalus* SPERM QUALITY
- 11:20** **Penz Penz Kwan**, Nur Ain Syahira Ishak, Mohammed Shariff, Sanjoy Banerjee
MALACHITE GREEN AND LEUCOMALACHITE GREEN RESIDUES IN LOCAL AND IMPORTED STRIPED CATFISH *Pangasius hypophthalmus*
- 11:40** **Suharyanto**, Jadmiko Dharmawan, Evi Tahapari
FORMATION OF SIAMESE CATFISH *Pangasianodon hypophthalmus* (SAUVAGE, 1878) (PANGASIIDAE; SILURIFORMES) F2 BASED ON SELECTION OF CHARACTER GROWTH
- 12:00** **JaiGopal Sharma**, Ravi Goswami, Rina Chakrabarti
THE STUDY OF IMPACT OF PARTIAL REPLESHMENT OF FISHMEAL WITH PLANT BASED DIET ON THE DIGESTIVE PHYSIOLOGY OF CARP *Labeo rohita*
- 12:20** **LUNCH**
- 13:50** **Flandrianto Sih Palimirmo**, Yogi Himawan, Khairul Syahputra
ELECTRIC SHOCK EFFECTIVENESS ON THE VIABILITY OF MUSTIKA CARP *Cyprinus carpio* SPERM CELLS
- 14:10** **Yogi Himawan**, Khairul Syahputra, Flandrianto Sih Palimirmo
APPLICATION OF MUSTIKA CARP *Cyprinus carpio* ON PONDS AND FLOATING CAGE CULTURE: A NEW STRAIN OF KOI HERPES VIRUS RESISTANT

THURSDAY

TILAPIA

Thursday, July 27 8:30 - 17:20 THO B
Chairs: Kevin Fitzsimmons, Ng Wing Keong

THURSDAY

- 8:30** **Mrityunjoy Kunda**, Aruna Deb, Md. Islam
COMPARISON OF PRODUCTION PERFORMANCE AND ECONOMICS BETWEEN MONO-SEX AND MIXED-SEX TILAPIA *Oreochromis niloticus*
- 8:50** **Yahia Mahmud**, A.H.M. Kohinoor, M.M. Rahman
PRODUCTION PERFORMANCE OF GIFT STRAIN *Oreochromis niloticus* WITH MAGUR *Clarias batrachus* AND GULSHA *Mystus cavasius* IN SEMI-INTENSIVE CULTURE MANAGEMENT
- 9:10** **Meenakshi Menaga**, Kevin Fitzsimmons
GROWTH OF TILAPIA INDUSTRY IN INDIA
- 9:30** **Kevin Fitzsimmons**, Kay LwinTun
2017 – SUPPLY AND DEMAND IN TILAPIA MARKETS
- 10:10** **BREAK**
- 10:40** **Adam Robisalmi**, Priadi Setyawan, Bambang Gunadi
GROWTH PERFORMANCE OF THREE STRAINS TILAPIA IN BRACKISHWATER POND
- 11:00** **Woei Chang Liew**, Xueyan Shen, Natascha M. Thevasagayam, Sai R.S. Prakki, Jolly M. Saju, Si Yan Ngoh, Laszlo Orban
GENOMIC RESOURCES FOR GENETIC IMPROVEMENT OF MOZAMBIQUE TILAPIA *Oreochromis mossambicus*
- 11:20** **Azhar Hamzah**, Ngo Phu Thoa, Nguyen Hong Nguyen
GENETIC IMPROVEMENT TO INCREASE HARVEST BODY WEIGHT IN RED TILAPIA *Oreochromis* spp.
- 11:40** **Oster Nwachi**, Yuzine Esa, A. Christianus, A. Abdullah Rahim, M.S. Kamarudin
MORPHOMETRIC AND MERISTIC VARIATION BETWEEN GIFT TILAPIA, UPM RED TILAPIA F2 HYBRID AND BACKCROSS (BC1F2)
- 12:00** **Chinnaiah Amutha**, Periasamy Subramanian
ESTROGEN-VITELLOGENIN INTERACTIONS ON *Oreochromis mossambicus* DUE TO ENDOCRINE DISRUPTING CHEMICALS COLLECTED FROM VARIOUS DRAINAGES IN VAIGAI RIVER TRIBUTARIES AROUND MADURAI, TN, INDIA AND ITS BIOREMEDIATION THROUGH ENZYME-NANOPARTICLE CONJUGATES
- 12:20** **LUNCH**
- 13:50** **Wing-Keong Ng**, Chik-Boon Koh, Chaiw-Yee Teoh, Siang-Bing Ng
DETERMINING THE NUTRIENT AVAILABILITY OF COMMERCIAL TILAPIA FUNCTIONAL FEEDS UNDER FARM AND LABORATORY CONDITIONS USING ACID-INSOLUBLE ASH AS A NATURAL INERT MARKER
- 14:30** **Laila M. Gallego**, Yew-Hu Chien
FEASIBILITY STUDY OF USING DUCKWEED AS TILAPIA-FEED INGREDIENT IN VARIOUS PROCESSING LEVELS

- 14:50** **Emilie Willems**, Jorge Dias, Sjo Zwart
COMPARATIVE EFFICACY OF MONOCALCIUM PHOSPHATE AND WINDMILL® AQUAPHOS ON THE GROWTH PERFORMANCE, PHOSPHORUS RETENTION AND DIGESTIBILITY IN NILE TILAPIA *Oreochromis niloticus*
- 15:10** **Levy Loreto Manalac**, Mark Newman, Lukas Manomaitis
COMPARISON OF A ZERO FISH MEAL FORMULATED FEED, A U.S. SOY-OPTIMIZED FORMULATED FEED WITH THREE PERCENT FISH MEAL AND COMMERCIAL FEED USING THE U.S. SOYBEAN EXPORT COUNCIL'S MARKETING PROGRAM'S LOW VOLUME, HIGH DENSITY CAGE AQUACULTURE TECHNOLOGIES WITH TILAPIA *Oreochromis niloticus* IN A COMMERCIAL PHILIPPINE TILAPIA CAGE FARM ON TAAL LAKE
- 15:30** **BREAK**
- 16:00** **Nicholas Romano**, Naga Kanmani, Mahdi Ebrahimi, S.M. Nurul Amin, Mohd Salleh Kamarudin, Vikas Kumar
PREGELATINIZED STARCHES IMPROVED PELLET CHARACTERISTICS AND THE GROWTH AND PHYSIOLOGY OF TILAPIA
- 16:20** **Alex Diana**, Tilman Wilke
TRIAL TO ASSESS THE EFFECTIVENESS OF CAPLUS ME ON GROWTH, SURVIVAL AND FOOD CONVERSION OF RED NILE TILAPIA *Oreochromis niloticus* DURING SEX REVERSAL
- 16:40** **Priadi Setyawan**, Adam Robisalmi, Bambang Gunadi
GROWTH AND FLESH QUALITY OF SRIKANDI STRAIN TILAPIA *Oreochromis niloticus* × *O. aureus* IN MARINE FLOATING CAGES
- 17:00** **M A. Kabir Chowdhury**, Saharat Kuakij, Supornchai Sri-Nhonghang, Orapint Jintasataporn
IMPROVED PERFORMANCE OF TILAPIA FED COMMERCIALY EXTRUDED DIETS SUPPLEMENTED WITH A PROTEASE COMPLEX IN BOTH FIELD AND LABORATORY CONDITIONS

PROCESSING AND POSTHARVEST

Thursday, July 27 8:30 - 12:20 THO A

Chair: K.V. Jayachandran

THURSDAY

- 8:30** **Karthik Gopi**, Debashish Mazumder, Jesmond Sammut, Neil Saintilan, Patricia Gadd, Attila Stopic
SEAFOOD TRACEABILITY AND QUALITY AUTHENTICATION USING NUCLEAR TECHNIQUES
- 8:50** **Jale Korun**
EFFECTS OF FISH TRANSPORT ON CORTISOL AND GLUCOSE LEVELS OF RAINBOW TROUT *Oncorhynchus mykiss* W.
- 9:10** **Nalan Gokoglu**
EFFECT OF BROMELAIN ENZYME ON OCTOPUS *Octopus vulgaris* MUSCLE TEXTURE
- 9:30** **Nalan Gokoglu**, Isin Aydin Unsal
OXIDATIVE ALTERATIONS OF LIPIDS IN FROZEN FISH AT DIFFERENT TIME AND SPEED DURING FROZEN STORAGE
- 9:50** **Md. Motaher Hossain**, Md. Anisur Rahman
PROSPECTS AND PROBLEMS OF FISH PROCESSING PLANTS IN SYLHET REGION, BANGLADESH
- 10:10** **BREAK**
- 10:40** **Nicholas M.H. Khong**, Fatimah Md. Yusoff, B. Jamilah, Mahiran Basri, Maznah Ismail, Che Azurahaman Che Abdullah, Kim Wei Chan
DIFFERENT COLLAGEN PROCESSING AND EXTRACTION TREATMENT IMPACT THE STRUCTURAL PROPERTIES OF THE COLLAGEN PRODUCED
- 11:00** **Ming-Jian Wang**
APPLICATION OF ICE SLURRY IN THE AQUACULTURE INDUSTRY

EDUCATION AND TRAINING

Thursday, July 27 13:50 - 17:20 Melaka

Chair: Muta Harah Zakaria

- 13:50** **Ram C. Bhujel**
AQUACULTURE AND FISHERIES EDUCATION, RESEARCH AND EXTENSION IN CHANGING CONTEXT
- 14:30** **Robinson Odong**, Godfrey Kawooya Kubiriza, Charles Masembe
BOOSTING FISHERIES AND AQUACULTURE PRODUCTION IN AFRICA THROUGH STRATEGIC AND SYNERGISTIC PARTNERSHIPS AND ADVANCEMENT OF INTER/MULTI-DISCIPLINARY TRAINING
- 14:50** **Fatimah Md Yusoff**, Aziz Arshad
AQUACULTURE AND FISHERIES EDUCATION IN MALAYSIA

CERTIFICATION AND LEGISLATION

Thursday, July 27 13:50 - 17:20 Kelantan

Chairs: Emmanuelle Bourgois, Mazuki Hashim, Bah Piyan

- 13:50 Voice from the Industry: Pentair**
Lucca Micciche
WHAT ROLES DOES CERTIFICATION AND COMPLIANCE PLAY IN THE INDUSTRY TOWARD EFFICIENCY AND SUSTAINABILITY IN SOUTH EAST ASIAN AQUACULTURE?
- 14:10 Voice from the Audit and Certification Bodies**
BAP – ASIC auditor
HOW DOES CERTIFICATION WORK TO TRACK EFFICIENCY AND SUSTAINABILITY IN SOUTH EAST ASIAN AQUACULTURE?
- 14:30 Voice from Emerging Tech Companies**
TBA
HOW COULD TECHNOLOGY SUPPORT MARKETS' COMPLIANCE REQUIREMENTS FOR SOUTH EAST ASIAN AQUACULTURE?
- 14:50 Voice From the Farms**
Kevin Fitzsimmons
MYANMAR EXPERIENCE IN ON-BOARDING FARMERS SUPPORTING SMALL HOLDERS TOWARD MARKET ACCESS, USING CERTIFICATION AS SCHEME FOR IMPROVEMENT
- 15:10 Voice from the Academia**
Salin Krishna, Gabriel Ataguba
COMPARING SUSTAINABILITY CERTIFICATION SCHEMES AND ASSESSING THEIR ROLE TOWARD EFFICIENCY AND SOCIAL AND ENVIRONMENTAL INTEGRITY
- 15.30 BREAK**
- 16.00 Panel Discussion:**
ENVIRONMENTAL AND SOCIAL IMPROVEMENT IN SOUTH EAST ASIA AQUACULTURE: SUCCESS STORIES, CHALLENGES AND FUTURE INSIGHTS

THURSDAY

NOTES

NOTES

FUTURE WORLD AQUACULTURE SOCIETY CONFERENCES & EXPOSITIONS

- | | | |
|---|---|---|
| 2017 | LACQUA 2017 Mazatlan Convention Center | November 7 - 10 Mazatlan, Mexico |
| Annual meeting of the Latin American & Caribbean Chapter, WAS with various aquaculture groups in South America | | |
| 2018 | AQUACULTURE AMERICA 2018 Paris Hotel | Feb. 19-22 Las Vegas, Nevada USA |
| Int'l Annual Conference & Exposition with U.S. Chapter, WAS, National Aquaculture Association and U.S. Suppliers Association | | |
| 2018 | ASIAN-PACIFIC AQUACULTURE 2018 Taipei International Convention Center | April 23 - 26 Taipei, Taiwan |
| Annual Meeting of the Asian Pacific Chapter, WAS and various Indonesian groups. | | |
| 2018 | AQUA 2018 Le Corum Congress Centre | August 25-29 Montpellier, France |
| International Annual Conference & Exposition of WAS joined with the Annual Conference & Exposition of EAS with many other associations, industry and government sponsors. | | |
| 2018 | LACQUA 2018 AGORA | October 23-26 Bogota, Colombia |
| Annual meeting of the Latin American & Caribbean Chapter, WAS with various aquaculture groups in South America | | |
| 2019 | AQUACULTURE 2019 Marriott New Orleans | March 6-10 New Orleans, Louisiana USA |
| Triennial Int'l Annual Conference & Exposition with WAS, Fish Culture Section, AFS, National Shellfisheries Association, U.S. Aquaculture Society, National Aquaculture Association and Aquaculture Suppliers Association | | |
| 2019 | LACQUA 2019 Wyndham Convention Center | November 19-22 San Jose, Costa Rica |
| Annual meeting of the Latin American & Caribbean Chapter, WAS with various aquaculture groups in South America | | |
| 2020 | AQUACULTURE AMERICA 2020 Hawaii Convention Center | Feb. 9-12 Honolulu, Hawaii USA |
| Int'l Annual Conference & Exposition with U.S. Chapter, WAS, National Aquaculture Association and U.S. Suppliers Association | | |

For information, contact:

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