



TUESDAY, May 20

PLENARY

Tuesday, May 20 9:00 - 10:40 Grand Ballroom

9:00 Greeting and Awards

9:10 Jae-Hak Son
AQUACULTURE IN KOREA: STATUS AND PROSPECTS

9:40 Hiroshi Saito
HUMAN HEALTH AND FOOD

10:10 Yoshihito Ito
SUSTAINABLE AQUACULTURE IN ASIA FOR HUMAN WELLBEING

SHRIMP FARM DESIGN AND MANAGEMENT

Tuesday, May 20 11:10 - 12:50 Room 201
Chairs: Tzachi M. Samocha, JongSheek Kim

11:10 Rattanawan Tam Mungkung, Shabbir H. Gheewala
SHIFTING FROM BLACK TIGER PRAWN TO PACIFIC WHITE SHRIMP: A PATHWAY
TOWARDS SUSTAINABILITY?

11:30 Pingsun Leung, Run Yu, Paul Bienfang
AN OPTIMAL PARTIAL HARVESTING MODEL FOR INTENSIVE SHRIMP CULTURE

11:50 Hector A. Gonzalez-Ocampo
SUSTAINABILITY INDEX APPLIED TO SEMIARID SHRIMP FARMS IN THE GULF OF
CALIFORNIA, MEXICO

12:10 Mahmudul Karim
PRAWN FARMING APPROACH IN BANGLADESH IN COMPLIANCE WITH THE FOOD
SAFETY, ENVIRONMENT AND HUMAN RIGHTS CODES

12:30 Qiuming Lai, Yi Yang, Yunhao Qiu
APPLICATION OF WATER PURIFICATION TECHNOLOGY IN INTENSIVE SHRIMP CULTURE

FRESHWATER PRAWNS

Tuesday, May 20 11:10 - 17:40 Room 101
Chairs: C. Mohanakumuran Nair, Chang Hee Han

- 11:10 Mrityunjoy Kunda**, M. E. Azim, M. A. Wahab
COMPARISON OF EFFECTS BETWEEN LOCALLY MADE AND COMMERCIAL DIETS ON THE GROWTH AND PRODUCTION OF FRESHWATER PRAWN *Macrobrachium rosenbergii* IN RAIN-FED FALLOW RICE FIELDS
- 11:30 Mizzu Kyaw Khine**
PRELIMINARY STUDY ON BROODSTOCK TECHNOLOGY WITH *Macrobrachium* SPECIES
- 11:50 Maria Lourdes Cuvin-Aralar**, Emiliano V. Aralar
COMPARISON OF PERFORMANCE OF TWO POPULATIONS OF *Macrobrachium rosenbergii* CULTURED IN LAKE-BASED CAGES

- 12:10 Wagner C. Valenti**, Liliam de A. Hayd, Daniel Lemos
EFFECTS OF AMBIENT NITRITE ON DEVELOPMENT AND METABOLISM OF
Macrobrachium amazonicum LARVAE
- 12:30 Devika Pillai**, Jean Robert Bonami, Joannes Sri Widada, C. Mohanakumaran Nair,
Divya V. Haridas, P. M. Sherief
DIAGNOSTICS FOR DETECTION OF WHITE TAIL DISEASE OF GIANT FRESHWATER
PRAWN *Macrobrachium rosenbergii* – A REVIEW
- 12:50 LUNCH**
- 13:50 Amnart Poapolathep**, Saranya Poapolathep, Usuma Jermnak, Kanjana Imsilp,
Nutthapong Wannapat, Aksorn Chareonsan, Narumol Klangkaew, Napasorn Kusujarit,
Susumu Kumagai
DISPOSITIONS AND RESIDUE DEPLETION OF OXYTETRACYCLINE IN MUSCLE TISSUE
OF GIANT FRESHWATER SHRIMP *Macrobrachium rosenbergii*
- 14:10 H. Shivananda Murthy**, Prakash Pavadi
ROLE OF β -1,3-GLUCAN ON GROWTH AND HEALTH MANAGEMENT IN FRESHWATER
PRAWN *Macrobrachium rosenbergii*
- 14:30 Kesinee Laisutisan**, Niti Chuchird, Chalor Limsuwan, Timothy William Flegel
TWO NEW VIRUSES IN CULTURED GIANT FRESHWATER PRAWNS *Macrobrachium
rosenbergii* IN THAILAND
- 14:50 Balasaheb B. G. Kulkarni**, S. G. Syeddain Zaidi, Sandhya Kupekar, Nchuembeni Humtose
BIOCHEMICAL ASPECTS OF COPPER TOXICITY TO THE FRESHWATER PRAWN
Macrobrachium rosenbergii
- 15:10 Aneykutty Joseph**, C. Mohanakumaran Nair, P. M. Sherief, Alphi Korath, A. V. Dhanya
REPRODUCTIVE PERFORMANCE OF BROODSTOCK OF *Macrobrachium rosenbergii*
(DE MAN) IN CAPTIVITY FED WITH DIFFERENT WET FEEDS
- 15:30 BREAK**
- 16:00 Uthairat Na-Nakorn**, Wikrom Rangsin
APPLICATION OF THE NEOFEMALE TECHNOLOGY FOR A PRODUCTION OF ALL-MALE
FRESHWATER PRAWN: A CHALLENGE FOR COMMERCIALIZATION
- 16:20 S. M. S. Rahman**, M. Kunda, M. A. Islam, M. E. Azim, M. A. Wahab
EFFECTS OF SELECTIVE HARVESTING AND CLAW ABLATION ON GROWTH AND
PRODUCTION OF ALL MALE PRAWN AND FINFISH IN POLYCULTURE SYSTEM
- 16:40 Amrit N. Bart**, Pham Truong
REPRODUCTION OF GIANT FRESHWATER PRAWN *Macrobrachium rosenbergii* (DE MAN)
IN DIFFERENT SALINITIES

AES - SESSION ON BFT

Tuesday, May 20 13:50 - 17:40 Room 201

Chairs: Yoram Avnimelech, Xiao-Hua Zhang

- 13:50 Yoram Avnimelech**
BFT, BIO-FLOCS TECHNOLOGY: WHAT IS IT AND HOW TO USE IT?
- 14:20 Craig L. Browdy**, Jesus Venero, Brad McAbee, Beth Thomas, Al Stokes, D. Allen Davis, John W. Leffler
RECENT ADVANCES IN SUSTAINABLE SUPER-INTENSIVE SHRIMP PRODUCTION SYSTEM DEVELOPMENT AND INTEGRATION OF MICROBIAL BIOFLOC COMMUNITY STRUCTURE WITH UNIQUE FEEDS TO MEET PROPOSED USDA ORGANIC CERTIFICATION STANDARDS
- 14:50 Angelito O. Abaoag**
MANAGEMENT OF MICROBIAL FLOCCULATION IN SHRIMP PONDS BY CONTROLLED INOCULATION OF BACTERIAL MIXED CULTURES
- 15:10 Md. Asaduzzaman**, S. Haque, M. A. Wahab, M. C. J Verdegem, M. E. Azim
THE EFFECT OF C/N RATIO CONTROL ON PRODUCTION OF FRESHWATER PRAWN *Macrobrachium rosenbergii* IN PONDS IS ADDITIVE TO SUBSTRATE ADDITION FOR PERIPHYTON DEVELOPMENT
- 15:30 BREAK**
- 16:00 Tzachi M. Samocha**, Jong Sheek Kim, Susmita Patnaik, Abdul Mehdi Ali, Timothy C. Morris
PRODUCTION, WATER QUALITY, NUTRIENT BUDGET AND PRELIMINARY COST ANALYSIS OF A SUPER-INTENSIVE GROWOUT SYSTEM FOR THE PACIFIC WHITE SHRIMP *Litopenaeus vannamei* OPERATED WITH NO WATER EXCHANGE
- 16:20 Demin Zhang**, Lijun Qian, Dan Wen
INVESTIGATION OF HETEROTROPHIC BACTERIA DIVERSITY IN *Portunus trituperculus* REARING POND
- 16:40 ROUNDTABLE DISCUSSION**
- 17:00 Maliwan Kutako**, Paveena Tapaneeyaworawong, Tawan Limpiyakorn, Sorawit Powtongsook, Piamsak Menasveta
EFFECT OF THE ORGANIC CARBON ON NITROGEN CONVERSION AND SEDIMENT BACTERIAL COMMUNITY IN AQUACULTURE SOIL BOTTOM

- 17:20 Harvey J. Pine**, Claude E. Boyd
MAGNESIUM ADSORPTION BY BOTTOM SOILS IN PONDS FOR INLAND CULTURE OF MARINE SHRIMP IN ALABAMA, USA

SHRIMP GENETICS, BROODSTOCK AND HATCHERY MANAGEMENT

Tuesday, May 20 13:50 - 17:40 Room 103

Chairs: Nigel Preston, Won Kim

- 13:50 Jim Wyban**
WORLD SHRIMP FARMING REVOLUTION: INDUSTRY IMPACT OF DOMESTICATION AND BREEDING OF SPF *P. vannamei*
- 14:10 Teerapong Ho**, Wansika Kiatpathomchai, Sakol Panyim, Apinunt Udomkit, Chalernporn Ongvarrasopane
MOLECULAR AND FUNCTIONAL CHARACTERIZATION OF cDNA ENCODING A NOVEL TYPE OF MOLT-INHIBITING HORMONE OF *Penaeus monodon*
- 14:30 Tom J. Dixon**, Greg J. Coman, Russell E. Lyons, Stuart J. Arnold, Leanne Dierens, Melony J. Sellars, Nigel P. Preston, Yutao Li
UTILISATION OF DNA MICROSATELLITE MARKERS IN SHRIMP DOMESTICATION PROGRAMMES IN AUSTRALIA
- 14:50 Melony J. Sellars**, Tom J. Dixon, Greg J. Coman, Nigel P. Preston
REPRODUCTIVELY STERILE, ALL-FEMALE SHRIMP FOR COMMERCIAL CULTURE
- 15:10 BREAK**
- 16:00 Brad Argue**, John Benzie, James Brock
FIELD TESTING OF FAMILY PERFORMANCE IN THE MOANA *P. monodon* GENETIC IMPROVEMENT PROGRAM
- 16:20 Aye Aye Naing**
MORPHOLOGICAL VARIATION STUDY OF LOCALIZED WILD POPULATIONS OF BLACK TIGER SHRIMP *Penaeus monodon* AND GIANT FRESHWATER PRAWN *Macrobrachium rosenbergii*
- 16:40 Hui Gong**, Donghuo Jiang, Adrian Rojas, Lorenzo Juarez
EVALUATION OF FAMILY EFFECT ON *Penaeus vannamei* REFRACTORY TO IHNV INFECTION
- 17:00 Shaun M. Moss**, Steve M. Arce, Dustin R. Moss, Clete A. Otoshi
GROWTH AND MATURATION OF A GLOBAL SHRIMP FARMING INDUSTRY: OPPORTUNITIES AND CHALLENGES

WEDNESDAY, May 21

GENERAL NUTRITION CONTRIBUTED

Wednesday, May 21 9:00 - 10:40 Room 108

Chair: Ewen McLean, Kang, Do-Hyung

- 9:00 John Sweetman, S. Torrecillas, A. Dimitroglou**
THE ROLE OF DIETARY MANNAN OLIGOSACCHARIDES IN IMPROVING HEALTH AND PERFORMANCE IN FISH
- 9:20 Minh Anh Pham, Kyeong-Jun Lee**
EFFECT OF FERMENTED SOYBEAN MEAL ON GROWTH PERFORMANCE AND IMMUNE RESPONSE OF PARROT FISH *Oplegnathus fasciatus*
- 9:40 Sang-Min Lee, Joo-Young Seo**
EFFECTS OF PROTEIN AND LIPID LEVELS IN PRACTICAL DIETS ON GROWTH AND BODY COMPOSITION OF JUVENILE SEA CUCUMBER *Stichopus japonicus*
- 10:00 Philip James, Philip Heath**
SEA URCHIN ROE ENHANCEMENT – A SUMMARY OF RESEARCH IN NEW ZEALAND
- 10:20 Do-Hyung Kang, Abu Affan, Hyun Soo Rho, Sang-Gyu Paik, Heung-Sik Park**
WHAT ARE THE MAIN FOOD ITEMS FOR CORAL REEF HOLOTHURIAN *Holothuria atra* (JÄGER, 1833) AT THE SEAGRASS BED IN CHUUK, FSM?

FRESHWATER PRAWNS - CONTINUED

Wednesday, May 21 9:00 - 10:20 Room 101

Chairs: C. Mohanakumuran Nair, Chang Hee Han

- 9:00 Weimin Miao**
TREND OF FRESHWATER PRAWN CULTURE IN CHINA AND ITS PROSPECT
- 9:20 A. L. Muthuraman**
ADOPTION OF BEST MANAGEMENT PRACTICES FOR INCREASING PRODUCTION AND PRODUCTIVITY OF GIANT FRESHWATER PRAWN IN TAMILNADU, INDIA
- 9:40 K. R. Salin, C. Mohanakumaran Nair**
RICE - PRAWN *Macrobrachium rosenbergii* FARMERS CHANGING TO ORGANIC MODE IN PADDY FIELDS OF KUTTANAD, KERALA, INDIA

SHRIMP DISEASES

Wednesday, May 21 9:00 - 17:40 Room 201

Chairs: Boonsirm Withyachumnarnkul, Hyun Do Jeong

- 9:00 Qiufen Li**, Yan Zhang, Xiaoxi Wang, Chengyin Shi
QUANTITATIVE DETECTION OF TWO STRAINS OF FUNCTIONAL BACTERIA IN BIOREMEDIATION BY COMPETITIVE PCR
- 9:20 Ana Denisse Re Araujo**, Ricardo A. González, Fernando Díaz, Alexei Licea, Noemi Sanchez
THERMOREGULATORY BEHAVIOR AND OXYGEN CONSUMPTION OF ADULT WHITE SHRIMP *Litopenaeus vannamei* (BOONE)
- 9:40 Fangfang Bai**, Xiao-Hua Zhang
INVOLVEMENT OF QUORUM SENSING IN THE VIRULENCE OF *Vibrio harveyi* AND ITS SIGNAL INTERFERENCE
- 10:00 Donghuo Jiang**, Hui Gong, Adrian Rojas, Lorenzo Juarez
QUANTITATIVE EFFECTS OF IHNV PREVALENCE ON PRODUCTION PERFORMANCE OF THE PACIFIC WHITE SHRIMP *Penaeus vannamei*
- 10:20 Pratchayapong Yasri**, Sakol Panyim, Apinunt Udomkit
SILENCING INFECTIOUS HYPODERMAL AND HEMATOPOIETIC NECROSIS VIRUS (IHNV) IN SHRIMP BY DOUBLE-STRANDED RNA
- 10:40 BREAK**
- 11:10 John AH Benzie**, Brad Argue, James Brock
DISEASE IN SHRIMP: STRATEGIES FOR GENETIC IMPROVEMENT PROGRAMS
- 11:30 Anchalee Tassanakajon**, Rungrat Jitvaropas, Piti Amparyup, Paul S. Gross
A MASQUERADE-LIKE SERINE PROTEINASE HOMOLOGUE FROM BLACK TIGER SHRIMP *Penaeus monodon* IS A PATTERN RECOGNITION PROTEIN
- 11:50 Wansadaj Jaroenram**, Wansika Kiatpathomchai, Timothy William Flegel
DEVELOPMENT OF LOOP-MEDIATED ISOTHERMAL AMPLIFICATION USING A SIMPLE TURBIDITY FOR DETECTION OF TAURA SYNDROME VIRUS
- 12:10 Pattira Pongtippatee**, Somjai Wongtripop, Manee Lervipas, Jareeporn Reongsri, Boonsirm Withyachumnarnkul
DIFFERENT SUSCEPTIBILITY TO WHITE-SPOT SYNDROME VIRUS INFECTION IN FAMILIES OF THE BLACK TIGER SHRIMP *Penaeus monodon*

- 12:30 Eleonor A. Tendencia**, Roselyn C. Usero, Roel H. Bosma, Johan A. J. Verreth
TEMPERATURE FLUCTUATIONS, LOW SALINITY, AND WATER MICROFLORA ARE RISK FACTORS FOR WSSV OUTBREAKS IN POND CULTURE OF *Penaeus monodon*
- 12:50 LUNCH**
- 13:50 Linh Nguyen**
INFLUENCE OF DIFFERENT SPECIES ALTERNATIVES AND STOCKING DENSITY ON SHRIMP PERFORMANCE AND HEALTH IN THUA THIEN HUE AND BINH DINH AQUACULTURE SYSTEMS
- 14:10 Pin-Hsing Chou**, Ping-Hua Teng, Fu-Chun Lee, Ping-Feng Sung, Bor-Rung Ou, Chen Su
“I CARE SO I SCREEN” – A NEW TECHNIQUE BRINGS INSTANT SENSITIVITY ON SHRIMP VIRUS DIAGNOSIS
- 14:30 Thanawat Sriphaijit**, Timothy W. Flegel, Saengchan Senapin
CHARACTERIZATION OF A SHRIMP SERINE PROTEASE HOMOLOG, A BINDING PROTEIN OF YELLOW HEAD VIRUS
- 14:50 Jiraporn Rojtinnakorn**, Pakkagul Sangsuriya, Sudkhate Monthathong, Saengchan Senapin, Sirawut Klinbunga, Timothy Flegel
SYSTEMIC PROGRAM CELL DEATH IN VIRAL INFECTED BLACK TIGER SHRIMP *Penaeus monodon*
- 15:10 In-Kwon Jang**, Xian-Hong Meng, Hyung-Chul Seo, Yeong-Rok Cho, Bong-Rae Kim, Ayyaru Gopalakannan, Jong-Sheek Kim
A TaqMan REAL-TIME PCR ASSAY FOR QUANTIFYING WHITE SPOT SYNDROM VIRUS (WSSV) INFECTIONS IN WILD BROODSTOCKS AND ARTIFICIALLY PRODUCED POSTLARVAE OF FLESHY SHRIMP *Fenneropenaeus chinensis*
- 15:30 BREAK**
- 16:00 Robin Wardle**, Victoria Lopez-Doriga, Mike J. Francis
RECENT ADVANCES IN ASSESSING THE PERFORMANCE OF AQUAVAC VIBROMAX, A PENTAVALENT VIBRIO “VACCINE” FORMULATION ADMINISTERED TO FARMED, PENAEID SHRIMP BY BIOENCAPSULATION
- 16:20 Rex Ferdinand Traifalgar**, Haruka Kira, Asda Laining, Valeriano Corre, Augusto Serrano, Saichiro Yokoyama, Manabu ishikawa, Shunsuke Koshio
FUCOIDAN AS IMMUNOSTIMULANT: EFFECTS ON GROWTH, SURVIVAL AND VIBRIOSIS RESISTANCE OF EARLY LARVAL STAGES OF *Penaeus monodon* AND *Marsupenaeus japonicus*
- 16:40 Matthew R. P. Briggs**
THE POTENTIAL OF ORGANIC ACIDS, PREBIOTICS AND PLANT-BASED IMMUNOSTIMULANTS AS FEED ADDITIVES TO ENHANCE CULTURE OF AQUATIC ANIMALS
- 17:00 Brian Austin**, Jason Brunt
PROBIOTICS AND DISEASE CONTROL IN AQUACULTURE
- 17:20 Xiao-Hua Zhang**, Zizhong Qi
CURRENT STATUS AND PROSPECT OF PROBIOTICS IN AQUACULTURE OF CHINA

THURSDAY, May 22

THURSDAY

CRAYFISH, CRABS AND OTHER SPECIES

Thursday, May 22 9:00 - 12:50 Room 201

Chairs: Tran Ngoc Hai, Jae-Sang Hong

- 9:00** **Chenghui Wang**, Chenhong Li, Chunhong Yuan, Sifa Li
POPULATION STRUCTURE AND DEMOGRAPHIC HISTORY OF THE MITTEN CRAB
Eriocheir sensu stricto ALONG THE COAST OF MAINLAND CHINA INFERRED FROM
MITOCHONDRIAL LOCI
- 9:20** **Shuyong Zhang**
ISOLATION AND MOLECULAR CHARACTERIZATION OF A NOVEL FLAVI-LIKE VIRUS
FROM CHINESE MITTEN CRAB *Eriocheir sinensis*
- 9:40** **Donald L. Mykles**, Joseph A. Covi
MYOSTATIN SIGNALING AND REGULATION OF A MOLT-INDUCED ATROPHY IN
CRUSTACEAN CLAW MUSCLE
- 10:00** **Samet Can Söylemez**, Keisuke Murakami, Carlos Augusto Strüssmann, Masashi Yokota,
Seiichi Watanabe
AMINO ACID UPTAKE BY THE JAPANESE SPINY LOBSTER *Panulirus japonicus*
PHYLLOSOMA LARVAE

- 10:20 Reza Shah Pahlevi**
SPINY LOBSTER CO-MANAGEMENT IN LOMBOK ISLAND: THE WAY FORWARD?
- 10:40 BREAK**
- 11:10 Antonio Garza de Yta, D. Allen Davis, David B. Rouse**
EVALUATION OF PRACTICAL DIETS CONTAINING VARIOUS PROTEIN SOURCES FOR
JUVENILE AUSTRALIAN RED CLAW CRAYFISH *Cherax quadricarinatus*

MONODON CULTURE

Thursday, May 22 13:50 - 17:40 Room 201

Chairs: Shi-Yen Shiau, In Kwon Jang

THURSDAY

- 13:50 Shi-Yen Shiau**
NUTRIENT REQUIREMENTS OF *Penaeus monodon*
- 14:20 Marc Le Groumellec**, Vincent Rigolet, Olivier Rasoloniaina, Michel Rakotondrafara, Manavendra Vemulapalli Rao, Marc Vandeputte
DEVELOPMENT, DOMESTICATION AND BREEDING OF A SPECIFIC PATHOGEN-FREE BROODSTOCK OF SHRIMP *Penaeus monodon* FROM MADAGASCAR
- 14:50 T. W. Flegel**
IMPORTANT DISEASES OF THE GIANT TIGER SHRIMP *P. monodon* IN ASIA
- 15:40 Hervé Lucien-Brun**
REVIEW ON THE SEMI INTENSIVE GROW OUT AND POND MANAGEMENT OF *Penaeus monodon*
- 16:10 Jacques Gabaudan**
GLOBAL PRODUCTION AND TRADE OF FARMED SHRIMP
- 16:40 Nguyen Van Hao**
THE STATUS, CHALLENGE AND PERSPECTIVE OF BLACK TIGER SHRIMP *Penaeus monodon* FARMING IN MEKONG DELTA, VIETNAM
- 17:10 David Smith**, Matt West, Sarah Groves
DEVELOPMENT OF PROTOCOLS FOR THE CULTURE OF BLACK TIGER SHRIMP *Penaeus monodon* IN “ZERO” WATER EXCHANGE PRODUCTION PONDS

FRIDAY, May 23

SHRIMP FEEDING AND NUTRITION

Friday, May 23 9:00 - 17:40 Room 201

Chairs: Gerard Cuzon, Jeong-Dae Kim

- 9:00 Rutchanee Chotikachinda**, Wiboon Lapjatupon, Suthasinee Chaisilapasung, Dhanapong Sangsue
EFFECT OF MANNANOLIGOSACCHARIDES (MOS) ON GROWTH PERFORMANCE, SURVIVAL RATE AND SOME IMMUNE PARAMETERS IN PACIFIC WHITE SHRIMP *Litopenaeus vannamei*
- 9:20 Carmen Galindo**, Gabriela Gaxiola, Gérard Cuzon, Nuno Simoes, Xavier Chappa-Carrara
PHYSIOLOGICAL AND BIOCHEMICAL CHANGES AT VARIOUS INTERMOLT STAGES IN JUVENILES *Litopenaeus vannamei* UNDER LABORATORY CONDITIONS
- 9:40 Fady Michael**, Shunsuke Koshio, Manabu Ishikawa, Saichiro Yokoyama, Takuji Yokoyama
DIETARY CHOLINE IMPROVES THE TOLERANCE AGAINST EXPOSURE OF FRESH WATER AND FORMALIN STRESSES IN POSTLARVAL KURUMA SHRIMP
- 10:00 Mario Hernandez-Acosta**, Pablo Gonzalez-Alanis, Rodrigo Otero, Abundio Gonzalez-Gonzalez, Gilberto Gutierrez-Salazar, Francisco Guzman-Saenz, Kevin Fitzsimmons
GROWTH AND DEVELOPMENT OF PACIFIC WHITE SHRIMP *Litopenaeus vannamei* JUVENILES, FED WITH DIFFERENT DIETS SUPPLEMENTED WITH *Yucca schidigera* AND *Quillaja saponaria* EXTRACTS
- 10:20 BREAK**
- 11:10 D. Allen Davis**, Daranee Sokkying, Luke Roy, Tzachi Samocha, Craig L. Browdy
DEVELOPMENT, TESTING AND DEMONSTRATION OF LOW FISH MEAL DIETS FOR THE PRODUCTION OF PACIFIC WHITE SHRIMP
- 11:50 Alfonso Galicia-González**, Marissa Camacho-Gutiérrez, Roberto Civera-Cerecedo
PARTIAL REPLACEMENT OF FISHMEAL BY SAFFLOWER MEAL IN PRACTICAL DIETS FOR WHITE SHRIMP *Litopenaeus vannamei*
- 12:10 Jorge A. Suárez**, Gabriela Gaxiola, Poso Rafael, Graciela Garcia, Guadalupe Alanis, Andres Suárez, Jaime Faillace, Gerard Cuzon
ENERGY PARTITIONING IN WHITE SHRIMP *Litopenaeus vannamei* FED WITH VEGETABLE PROTEIN SOURCES
- 12:30 Gabriela M. Gaxiola**, L. Arena, C. Maldonado, C. Cuzon, S. Ortiz
NUTRIGENOMICS APPROACH OF *Litopenaeus vannamei* JUVENILES FED PLANT PROTEIN SOURCES
- 12:50 LUNCH**
- 13:50 Nguyen Binh Thanh**, Shunsuke Koshio, Manibu Ishikawa, Saichiro Yokoyama, Ryo Ogawa, Fary Rafaat Michael
DEVELOPMENT OF MATURATION FEEDS FOR KURUMA SHRIMP *Marsupenaeus japonicus*

- 14:10 Hui Gong**, Addison L. Lawrence, Frank Alig, Donghuo Jiang
PERFORMANCE OF TWO DIFFERENT LINES OF *Penaeus vannamei* IN RESPONSE TO DIFFERENT DIETARY PROTEIN SOURCES AND LEVELS
- 14:30 Daniel Lemos**, Raul Dias, Rodrigo Carvalho, Alberto Nunes, Albert Tacon
COMBINED EFFECTS OF TEMPERATURE, SALINITY, LEACHING TIME AND PELLET DIMENSIONS UPON WATER STABILITY OF FEEDS FOR *Litopenaeus vannamei*
- 14:50 Ian P. Forster**, Warren G. Dominy, Leonard Obaldo, Gary F. Hartnell, Ernest Sanders
THE EFFECT OF FEEDING DIETS CONTAINING STEARIDONIC ACID-CONTAINING SOYBEAN OIL ON GROWTH PERFORMANCE IN PACIFIC WHITE SHRIMP *Litopenaeus vannamei*
- 15:30 BREAK**
- 16:00 Daniel Lemos**, Addison Lawrence, Anthony Siccardi
PREDICTION OF APPARENT PROTEIN DIGESTIBILITY IN INGREDIENTS FOR *Litopenaeus vannamei* DIETS USING pH-STAT DEGREE OF PROTEIN HYDROLYSIS (DH%) WITH HEPATOPANCREAS ENZYME EXTRACTS
- 16:20 Gérard Couzon**
ASPECTS OF BIOENERGETICS IN SHRIMP
- 17:00 DISCUSSION**