



ISFNF
2016

PLENARY AGENDA

Sunday 5 June 2016

1400 - 1800 Registration - Columbine Room, Sun Valley Inn

1700 - 1830 WELCOME RECEPTION - Convention Center

Monday 6 June 2016

0830-0900 Welcome - Meeting Chairs - Hardy and Izquierdo
Dr. Charles Staben, President, University of Idaho
Mr. Sam Matsaw, Shoshone-Bannock Tribe, UI PhD student

0900-0930 Keynote 1: HALVER LECTURE - Research Priorities for Sustainable Feeds
Speaker: Sachi Kaushik

0930-1030 Plenary Session: Feed Resources

Chairs: Marisol Izquierdo and Rick Barrows

0930-0945 EVALUATION OF GLANDLESS, SOLVENT-EXTRACTED AND GENETICALLY MODIFIED LOW-GOSSYPOL COTTONSEED FLOUR AS ALTERNATIVE PROTEIN SOURCES IN THE DIET OF BLACK SEA BASS, CENTROPRISTIS STRIATA AND SOUTHERN FLOUNDER, PARALICHTHYS LETHOSTIGMA
Speaker: Md. Shah Alam

0945-1000 USE OF ALTERNATIVE PROTEIN SOURCES AS FISH MEAL REPLACER IN AQUA FEEDS OF KOREA
Speaker: Sungchul Bai

1000-1015 OILS FROM A TRANSGENIC OILSEED CROP, CAMELINA SATIVA, TO REPLACE MARINE FISH OIL IN AQUAFEEDS.
Speaker: Monica Betancor

1015-1030 TOWARDS COMPLETE REPLACEMENT OF BOTH FISHMEAL AND FISH OIL IN DIETS FOR ASIAN SEABASS, LATES CALCARIFER
Speaker: Brett Glencross

1030-1100 Morning Coffee Break

1100-1230 Feed Resources (continued)

Chairs: Brett Glencross and Del Gatlin

1100-1115 FEEDING A FEED INGREDIENT: INSECT BIOCONVERSION OF ORGANIC MATTER INTO NUTRITIOUS AND SAFE FEED INGREDIENTS FOR ATLANTIC SALMON
Speaker: Eric-Jan Lock

1115-1130 THE CETOLEIC ACID CONTENT OF NORTH ATLANTIC FISH OILS IMPROVES THE BIOCONVERSION OF OMEGA-3 FATTY ACIDS IN ATLANTIC SALMON
Speaker: Tone-Kari Ostbye

1130-1145 RESIDUE LEVELS OF PESTICIDES IN FISH FEED – CHLORPYRIFOS TOXICITY IN ATLANTIC SALMON (SALMO SALAR L.).
Speaker: Monica Sanden

1145-1200 COTTONSEED PROTEIN PROVIDES AN OPPORTUNITY TO ENHANCE THE SUSTAINABILITY OF AQUACULTURE BY REPLACING FISH MEAL – A REVIEW.
Speaker: Tom Wedegaetner

Monday 6 June

1200-1215	REPLACEMENT OF ESSENTIAL LIPIDS IN PRACTICAL GROW OUT DIETS FOR WHITELEG SHRIMP <i>PENAEUS VANNAMEI</i> USING DIFFERENT SOURCES OF PURIFIED BILE SALTS. Speaker: Peter Coutteau
1215-1230	REQUIREMENT OF DIETARY α -LINOLENIC FATTY ACID FOR JUVENILE NILE TILAPIA AT COLD SUBOPTIMAL TEMPERATURE Speaker: Debora Fracalossi
1230-1400	Lunch
1400-1530	Feed Resources (continued)
Chairs: Allen Davis and Elizabeth Cruz	
1400-1415	UTILIZING SCHIZOCHYTRIUM SP. MICROALGAE TO REPLACE FISH OIL IN FINFISH DIETS Speaker: Keith Filer
1415-1430	A COMPARATIVE INVESTIGATION OF THE EFFECTS OF THE FEED-BORNE FUSARIUM MYCOTOXIN DEOXYNIVALENOL (DON) ON GROWTH PERFORMANCE, NUTRIENT UTILIZATION AND METABOLISM OF DETOXIFICATION IN RAINBOW TROUT (<i>ONCORHYNCHUS MYKISS</i>) AND NILE TILAPIA (<i>OREOCHROMIS NILOTICUS</i>) FED DIETS CONTAINING DIFFERENT LEVELS OF DIGESTIBLE CARBOHYDRATES. Speaker: Jamie Hooft
1430-1445	COMBINED EFFECTS OF EXOGENOUS ENZYMES AND PROBIOTICS ON TILAPIA (<i>OREOCHROMIS NILOTICUS</i>) GROWTH, INTESTINAL MORPHOLOGY AND HEALTH Speaker: Ayodeji Adeoye
1445-1500	IN VIVO VS IN VITRO DIGESTIBILITY ESTIMATIONS OF POULTRY MEAL IN ATLANTIC SALMON (<i>SALMO SALAR</i>) Speaker: Michael Lewis
1500-1515	FROM INGREDIENTS TO NUTRIENTS: TOWARDS UNDERSTANDING THE ROLES OF INDIVIDUAL DIETARY FATTY ACIDS ON OMEGA-3 METABOLISM IN ATLANTIC SALMON. Speaker: Giovanni Turchini
1515-1530	COMPARATIVE DIETARY SOYBEAN MEAL UTILIZATION IN RAINBOW TROUT, RED DRUM AND COBIA Speaker: Delbert Gatlin III
1530-1600	Afternoon Coffee Break
1600-1645	Nutritional Modeling
Chairs: Elizabeth Cruz and Andre Dumas	
1600-1615	MAINTENANCE NEEDS AND UTILIZATION EFFICIENCY OF DIGESTIBLE METHIONINE DETERMINED FOR JUVENILE TRA CATFISH (<i>PANGASIANODON HYPOTHALAMUS</i>) USING INCREASING RATION LEVELS Speaker: Karthik Masagounder
1615-1630	ADAPTATION OF THE THERMAL-UNIT GROWTH COEFFICIENT (TGC) MODEL TO PREDICT GROWTH TRAJECTORY FOR TWO COMMERCIALY IMPORTANT AQUACULTURE SPECIES, NILE TILAPIA (<i>OREOCHROMIS NILOTICUS</i>) AND PACIFIC WHITELEG SHRIMP (<i>LITOPENAEUS VANNAMEI</i>). Speaker: Christopher Powell
1630-1645	DEFINING THE ALLOMETRIC RELATIONSHIP BETWEEN SIZE AND SPECIFIC FATTY ACID TURNOVER IN BARRAMUNDI LATES <i>CALCARIFER</i> . Speaker: Michael Salini
1700-1830	POSTER SESSION - REFRESHMENTS

Tuesday 7 June 2016

0830-0900 **Keynote 2: Advances in Microbiome Research**
Speaker: John Rawls, Duke University

0900-0915 Q&A with John Rawls

0900-1030 **Nutrition and Health**

Chairs: Genevieve Corraze and Charles Bai

0900-0915 MICROBIOTA AND GUT HEALTH IN ATLANTIC SALMON (SALMO SALAR)
Speaker: Carola Dehler

0915-0930 EVALUATION OF MORINGA LEAVES AS A PREBIOTIC IN TILAPIA AQUACULTURE FROM A PRODUCTION AND HEALTH PERSPECTIVE
Speaker: Alyssa Haygood

0930-0945 EFFECTS OF MICROBIAL PHYTASE ON GROWTH, GUT HEALTH AND MICROBIOTA OF HYBRID TILAPIA
Speaker: Jun Hu

0945-1000 THE GUT MICROBIOTA IN ATLANTIC SALMON (SALMO SALAR) AND EFFECTS OF DIET COMPOSITION AS OBSERVED WITH HIGH-THROUGHPUT SEQUENCING
Speaker: Ashild Krogdahl

1000-1015 OMEGA-6/OMEGA-3 BALANCE AND SATURATED FAT IN DIETS FOR ATLANTIC SALMON - EFFECTS ON FISH HEALTH AND DISEASE RESISTANCE
Speaker: Sofie Remø

1015-1030 BIOLOGICAL PERFORMANCE AND CATARACT DEVELOPMENT IN TRIPLOID AND DIPLOID ATLANTIC SALMON DURING SMOLTIFICATION AT NORMAL AND ELEVATED TEMPERATURE
Speaker: Rune Waagbo

1030-1100 **Morning Coffee Break**

1100-1230 **Nutrition and Health**

Chairs: Charles Bai and Rune Waagbo

1100-1115 EFFECT OF DIETARY β -CONGLYCININ ON INTESTINAL HEALTH OF TURBOT, SCOPHTHALMUS MAXIMUS L.
Speaker: Yanjiao Zhang

1115-1130 ESSENTIAL OILS AS FEED ADDITIVES FOR TILAPIA
Speaker: Zhigang Zhou

1130-1145 COMBINED EFFECTS OF EXOGENOUS ENZYMES AND PROBIOTICS ON TILAPIA (OREOCHROMIS NILOTICUS) GROWTH, INTESTINAL MORPHOLOGY AND HEALTH
Speaker: Xuan Wang

1145-1200 DIETARY COMBINATIONS OF VITAMIN K, E AND C AFFECT THE INCIDENCE OF SYSTEMIC GRANULOMATOSIS IN ONGROWING MEAGRE (ARGYRO SOMUS REGIUS)
Speaker: M. Jose Cabellero

1200-1215 THE EFFECTS OF DIETARY INCLUSIONS OF VITAMIN D3 ASSOCIATED TO CYP27A1, ANTIOXIDANT ENZYMES AND NON-INFECTIOUS SYSTEMIC GRANULOMATOSIS IN MEAGRE (ARGYRO SOMUS REGIUS)
Speaker: Efthimia Cotou

1215-1230 PHYSIOLOGICAL MECHANISMS ASSOCIATED WITH GENETIC SELECTION FOR NUTRITIONAL TRAITS IN RAINBOW TROUT
Speaker: Ken Overturf

Tuesday 7 June

1230-1400 Lunch

1400-1530 Nutrition and Health

Chairs: Shouqi Xie and Debora Fracalossi

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| 1400-1415 | DIETARY EFFECTS OF ADENOSINE MONOPHOSPHATE TO ENHANCE GROWTH, DIGESTIBILITY, IMMUNE RESPONSES AND STRESS RESISTANCE OF JUVENILE RED SEA BREAM, PAGRUS MAJOR
Speaker: Md. Sakhawat Hossain |
| 1415-1430 | DIETARY STACHYOSE IMPROVED TURBOT (SCOPHTHALMUS MAXIMUS L.) INTESTINAL STRUCTURE, INTESTINAL MUCOSAL BARRIER AND INTESTINAL MICROBIOTA
Speaker: Haibin Hu |
| 1430-1445 | PROINMUNOIL: SUPPLEMENTATION STRATEGIES OF COMBINED PREBIOTICS AND PROBIOTICS ON GROWTH PERFORMANCE AND HEALTH OF EUROPEAN SEABASS (DICENTRARCHUS LABRAX) JUVENILES
Speaker: Daniel Montero |
| 1445-1500 | SOYBEAN MEAL AND LOW WATER OXYGEN LEVEL AFFECTS DIGESTIVE FUNCTION AND GUT HOMEOSTASIS IN RAINBOW TROUT (ONCORHYNCHUS MYKISS)
Speaker: Peyman Mosgerian Tanha |
| 1500-1515 | EFFECT OF DIFFERENT LEVELS OF DIETARY ASTAXANTHIN ON GROWTH PERFORMANCE, PIGMENTATION, GUT MICROBIOTA, ANTIOXIDANT CAPACITY AND GENE EXPRESSION OF JUVENILE GOLDEN POMPAÑO
Speaker: Jin Niu |
| 1515-1530 | CHARACTERIZATION OF A PUTATIVE PROBIOTIC ENTEROBACTER STRAIN (C6-6) AND POTENTIAL MECHANISMS ASSOCIATED WITH PROTECTION OF RAINBOW TROUT CHALLENGED WITH FLAVOBACTERIUM PSYCHROPHILUM, THE CAUSATIVE AGENT OF COLDWATER DISEASE/RAINBOW TROUT FRY SYNDROME
Speaker: Ken Cain |

1530-1600 Afternoon Coffee Break

1600-1715 Nutrition and Product Quality

Chairs: Shi-Yen Shiau and Gary Fornshell

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| 1600-1615 | PIGMENT DEPLETION IN ATLANTIC SALMON (SALMO SALAR) STARVED AT HIGH TEMPERATURE: EFFECT OF DIETARY CAROTENOID TYPE AND VITAMIN E LEVEL
Speaker: Martin Grunewald |
| 1615-1630 | IMPACT OF SUSTAINABLE FEEDS ON OMEGA-3 LONG-CHAIN POLYUNSATURATED FATTY ACIDS IN FARMED ATLANTIC SALMON
Speaker: Matthew Sprague |
| 1630-1645 | HIGH DIETARY 18:2N-6 DOES NOT INHIBIT ELONGATION AND DESATURATION OF 18:3N-3 TO EPA AND DHA IN ATLANTIC SALMON (SALMO SALAR L.)
Speaker: Bente Torstensen |
| 1645-1700 | DIETARY HYDROXYPROLINE IMPROVES THE GROWTH AND MUSCLE QUALITY OF LARGE YELLOW CROAKER LARIMICHTHYS CROCEA
Speaker: Wenbing Zhang |
| 1700-1715 | DEVELOPMENT OF A TREATMENT TO IMPROVE THE BIOAVAILABILITY AND DIGESTIBILITY OF FEATHER MEAL IN RAINBOW TROUT
Speaker: Guillaume Pfeuti |

1715-1900 POSTER SESSION - REFRESHMENTS

Wednesday 8 June 2016

0830-0900 INFNF Career Achievement Award - Dr. Santosh Lall

0900-1030 Nutritional Requirements

Chairs: Kangsen Mai and Brian Small

0900-0915 UTILIZATION OF CARBOHYDRATES AS A SOURCE OF DIETARY ENERGY IN WHITE SEABASS *TRACTOSCION NOBILIS*
Speaker: Allen Davis

0915-0930 EFFECT OF DIETARY MINERALS IN IN EARLY WEANING DIETS ON GROWTH, SURVIVAL AND GENE EXPRESSION OF GILTHEAD SEA BREAM (*SPARUS AURATA*) LARVAE.
Speaker: Kamil Mert Eryalcin

0930-0945 DIETARY ARGININE AFFECTS GROWTH PERFORMANCE AND RELATIVE GENE EXPRESSIONS OF TOR PATHWAY, GLUCOSE AND LIPID METABOLISM-RELATED SIGNALING MOLECULES IN JUVENILE BLUNT SNOUT BREAM, *MEGALOBrama AMBLYCEPHALA*
Speaker: Mingchun Ren

0945-1000 A COMBINATION OF SUPPLEMENTAL ENZYMES (PROTEASE, XYLANASE AND PHYTASE) ENHANCED THE GROWTH PERFORMANCE, NUTRIENT DIGESTIBILITY AND RETENTION IN NILE TILAPIA FED LOW FISHMEAL DIETS.
Speaker: Viviane Verlhac Trichet

1000-1015 EVALUATING THE EFFICACY OF THREE DISTINCT HETEROTROPHIC FEEDING REGIMES AGAINST A WHOLLY PHOTOTROPHIC TREATMENT FOR INCREASED GROWTH AND FITNESS IN *ACROPORA* CORAL RECRUITS
Speaker: Jessica Conlan

1015-1030 EFFECT OF REPLACING FISH OIL AND FISH MEAL IN AQUAFEEDS WITH TERRESTRIAL PRODUCTS ON GROWTH PERFORMANCE AND CHEMICAL COMPOSITION IN ATLANTIC SALMON
Speaker: Christopher Parrish

Proven processes for high-value aquafeed. Bühler's innovative aquafeed solutions allow customers to produce the ideal feed for each species of fish or crustacean. Integral production processes such as Bühler's pelleting, extrusion, and drying technologies maximize feed digestibility and conversion rates, while increasing the health of the entire fish population.

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Wednesday 8 June

1030-1100 Morning Coffee Break

1100-1230 Nutritional Requirements

Chairs: Sachi Kaushik and Qinghui Ai

1100-1115 DIETARY MINERALS AND VITAMINS REQUIREMENTS FOR GILTHEAD SEABREAM (SPARUS AURATA) JUVENILES FED DIETS HIGH IN VEGETABLE INGREDIENTS

Speaker: David Dominguez

1115-1130 BIOSYNTHESIS OF VERY LONG-CHAIN (>C24) POLYUNSATURATED FATTY ACIDS IN JUVENILES OF GILTHEAD SEABREAM (SPARUS AURATA)

Speaker: Oscar Monroig

1130-1145 INTENSIFICATION OF CULTURED SHRIMP PRODUCTION REQUIRES HIGH SUPPLY OF DIETARY MET+CYS

Speaker: Alberto Nunes

1145-1200 DIET VERSUS INGREDIENT DIGESTIBILITY: CONSISTENCY NEEDED IN THE DETERMINATION OF AMINO ACID SUPPLY IN SHRIMP DIETS

Speaker: Daniel Lemos

1200-1215 N-3 ESSENTIAL FATTY ACIDS IN NILE TILAPIA, OREOCHROMIS NILOTICUS: DIETARY LINOLENIC ACID HAS GREAT EFFECTS ON LINOLEIC ACID BIOCONVERSION

Speaker: Qing Pan

1215-1230 INFLUENCE OF ECHINACEA PURPUREA ON FISH BREEDING AND BIOLOGICAL PARAMETERS AND NATURAL RESISTANCE OF THE HETEROGENEOUS GROUPS OF CARP

Speaker: Victor Skobelev

1230-1900 RECREATION BREAK

1900-2300 COWBOY DINNER - TRAIL CREEK LODGE (transportation provided from Baldy Bus Loop starting at 1830)

The logo for EWOS, featuring the letters 'EWOS' in a bold, green, sans-serif font. A registered trademark symbol (®) is located to the upper right of the 'S'.The logo for Cargill, featuring the word 'Cargill' in a bold, black, serif font. A green leaf-like graphic is positioned above the 'i' in 'Cargill', and a trademark symbol (™) is located to the upper right of the 'l'.

Connecting Excellence. Delivering Success.

With over 80 years of experience, EWOS feeds are formulated to provide optimum fish health while helping our customer achieve their production goals. This expertise, combined with our service excellence and Cargill's more than 100 years of experience in animal nutrition solutions, ensures customers receive high quality, nutritionally-sound feeds that are backed by global feed and ingredient research. The secret to our success is helping our customers achieve theirs.

EWOS feeds demonstrate food safety, traceability and sustainable sourcing through certification to these global standards: ISO 9001, ISO 14001, ISO 22000, OHSAS 18001, Best Aquaculture Practices (BAP) and Global GAP.

John Hewitt, EWOS Feed Consultant in Idaho: 772-284-1491

Thursday 9 June 2016

0830-0840 **Announcements**

0840-0915 **Keynote 3: Research Needs for Sustainable Feeds - Industry Perspective**
Speaker: Jose Villalon, Skretting

0915-1030 **Plenary Session: Nutrigenomics**

Chairs: Bente Torstensen and Hector Hernandez

0915-0930 EVALUATION OF THE EFFECTS OF ANIMAL AND PLANT-BASED DIETS ON THE LIVER TRANSCRIPTOME OF ATLANTIC SALMON (*SALMO SALAR*)

Speaker: Albert Cabellero-Solares

0930-0945 ENERGY COMPOSITION OF DIET AFFECTS MUSCLE FIBER RECRUITMENT, BODY COMPOSITION, AND GROWTH TRAJECTORY IN RAINBOW TROUT (*ONCORHYNCHUS MYKISS*).

Speaker: Andre Dumas

0945-1000 EXPLORING THE DUPLICATED GENOME OF THE RAINBOW TROUT PROVIDES NEW INSIGHTS INTO THE UNDERSTANDING OF ITS CARNIVOROUS-RELATED NUTRITIONAL METABOLISM: THE GLUCOSE-6-PHOSPHATASE GENES EXEMPLE

Speaker: Lucie Marandel

1000-1015 POSTPRANDIAL CHANGES IN PLASMA FREE AMINO ACIDS AND HEPATIC GENE EXPRESSION IN RESPONSE TO VARIABLE TOTAL SULPHUR AMINO ACID INCLUSION IN THE DIET OF BARRAMUNDI (*LATES CALCARIFER*).

Speaker: David Poppi

1015-1030 EFFECTS OF DIETARY AMINO ACID PATTERNS ON GROWTH, PLASMA BIOCHEMICAL INDICES AND EXPRESSION OF GROWTH-RELATIVE GENES OF HYBRID GROUPER (*EPINEPHELUS LANCEOLATUS* ♂ × *EPINEPHELUS FUSCOGUTTATUS* ♀) JUVENILES

Speaker: Xiaoyi Wu

1030-1100 **Morning Coffee Break**

1100-1230 **Nutrigenomics (continued)**

Chairs: Ashild Krogdahl and Ian Forster

1100-1115 TESTING LONG-TERM EFFECTS OF PARENTAL NUTRITIONAL PROGRAMMING WITH VEGETABLE OILS AND A "REMINDER" DIET DURING JUVENILE STAGE ON GROWTH AND LIPID METABOLISM RELATED GENES IN GILTHEAD SEA BREAM (*SPARUS AURATA*)

Speaker: Serhat Turkmen

1115-1130 DIFFERENTIAL REGULATION OF TAURINE BIOSYNTHESIS IN RAINBOW TROUT AND JAPANESE FLOUNDER

Speaker: Xuan Wang

1130-1145 ESTABLISHMENT OF GERM-FREE ZEBRAFISH MODEL AND ITS APPLICATION IN FISH LIPID METABOLISM STUDY

Speaker: Meiling Zhang

1145-1200 RAINBOW TROUT GUT CELL LINE (RT_{gutGC}) CHARACTERIZATION AS A MODEL FOR FISH INTESTINAL EPITHELIA

Speaker: Matteo Minghetti

1200-1215 AMINO ACIDS REGULATE HEPATIC INTERMEDIARY METABOLISM RELATED GENE EXPRESSION THROUGH mTORC1 ACTIVATION IN RAINBOW TROUT

Speaker: Sandrine Skiba

Thursday 9 June

1215-1230 ISOLATION, MOLECULAR CHARACTERIZATION, AND TISSUE DISTRIBUTION OF TAURINE SYNTHESIZING ENZYMES IN JAPANESE FLOUNDER (PARALICHTHYS OLIVACEUS)

Speaker: Maria Mojena Gonzales

1230-1400 Lunch

1400-1530 Nutritional Physiology

Chairs: Giovanni Turchini and Qing Pan

1400-1415 SYSTEMIC ADAPTATION OF LIPID METABOLISM IN RESPONSE TO LOW AND HIGH FAT DIET IN NILE TILAPIA (OREOCHROMIS NILOTICUS)

Speaker: Zhen-Yu Du

1415-1430 DIETARY CHROMIUM PICOLINATE AFFECTS GROWTH AND RELATIVE GENE EXPRESSIONS OF GLUCOSE AND LIPID METABOLISM-RELATED SIGNALING MOLECULES IN JUVENILE BLUNT SNOUT BREAM, MEGALOBrama AMBLYCEPHALA

Speaker: Xianping Ge

1430-1445 ULTRASTRUCTURE AND FUNCTION OF THE GASTROINTESTINAL TRACT IN MARINE HERBIVOROUS FISHES.

Speaker: Kate Johnson

1445-1500 DIFFERENCES IN GASTROINTESTINAL TRACT GLUCOSE TRANSPORTERS BETWEEN CARNIVOROUS RAINBOW TROUT (ONCORHYNCHUS MYKISS) AND OMNIVOROUS NILE TILAPIA (OREOCHROMIS NILOTICUS)

Speaker: Marina Subramaniam

1500-1515 NUTRITIVE SIGNIFICANCE OF CHOLESTEROL AND ITS PUTATIVE METABOLISM AND MOBILIZATION IN SHRIMP

Speaker: Vikas Kumar

1515-1530 PHOSPHATIDYLCHOLINE ATTENUATES LIPID DEPOSITION IN LARGE YELLOW CROAKER (LARIMICHTHYS CROCEA R.) BY FACILITATING THE ASSEMBLY OF VERY LOW DENSITY LIPOPROTEIN (VLDL) IN VIVO AND IN VITRO

Speaker: Zuonan Cai

1530-1600 Afternoon Coffee Break

1600-1700 Nutritional Physiology

Chairs: Andre Dumas and Ronald Hardy

1600-1615 DIFFERENT REGULATION OF INSULIN ON LIPID AND GLUCOSE METABOLISM IN TWO STRAINS OF GIBEL CARP

Speaker: Junyan Jin

1615-1630 ALTERNATIVE PROTEIN SOURCES FOR FISH, NOT COMPETING WITH THE HUMAN FOOD DEMAND EVALUATED BY TRADITIONAL AND NOVEL APPROACHES.

Speaker: Anders Kiessling

1630-1645 EFFECTS OF DIETARY GLYCININ ON GROWTH PERFORMANCE, DIGESTIBILITY AND IMMUNITY OF TURBOT (SCOPHTHALMUS MAXIMUS L.)

Speaker: Yang Liu

1645-1700 PHYTOSTEROLS AND CHOLESTEROL ABSORPTION IN ZEBRAFISH (DANIO RERIO)

Speaker: Nathaniel Sibinga

1830-2200 SYMPOSIUM BANQUET - RIVER RUN LODGE (transportation provided from Baldy Bus Loop starting at 1800)

Friday 10 June 2016

0830-0840	Announcements
0840-0910	Keynote 4: Research Needs for Sustainable Feeds - Practicing Nutritionist Perspective Speaker: Tim O'Keefe
0910-1115	Practical Applications of Nutritional Research Chairs: Brett Glencross and Rick Barrows
0910-0930	ADVANCES IN EXTRUSION TECHNOLOGY Speaker: Joseph Kearns
0930-0945	EXTRUSION STUDIES AND LIFE-LONG TOTAL REPLACEMENT OF FISH OIL IN SALMON FEEDS BY HETEROTROPHIC MICROALGAE BIOMASS Speaker: Andre Bøgevik
0945-1000	AVAILABILITY OF FISH MEAL AND ENZYME-TREATED FISH MEAL FOR PACIFIC BLUEFIN TUNA JUVENILE THUNNUS ORIENTALIS Speaker: Jeonghyeon Cho
1000-1015	EVALUATION OF PHOSPHORUS SOURCES IN SALMON NUTRITION Speaker: Per Krogedal
1030-1100	Morning Coffee Break
1100-1115	Student Awards Elizabeth Cruz and ISFNF Scientific Committee
1115-1130	Closing Remarks - Next Meeting ISFNF Scientific Committee



Student Awards

Awards are being presented to three oral and three poster presentations from students attending the symposium. The awards are judged by a joint panel from the Scientific and Organizing Committees of the symposium based on their presentation and technical merit.