



## Middle East Aquaculture 2016

**SUNDAY, March 13**

### **OPENING CEREMONY**

10:30 Abu Dhabi B

### **PLENARY 1**

10:50 Abu Dhabi B

**H.E. Eng. Mariam Mohammed Saeed Hareb**  
AQUACULTURE IN THE UAE

### **REGIONAL AQUACULTURE PRODUCTION SYSTEMS OPPORTUNITIES**

Sunday, March 13 11:20 - 13:00 Abu Dhabi B

Chair: David Currie

**11:20 Davide Di Crescenzo**

AQUAPONICS: RAISING FISH AND CULTIVATING VEGETABLES TOGETHER WITH AN EFFICIENT USE OF LIMITED RESOURCES

**12:00 Valerio Crespi, Sherif Sadek**

SUSTAINABLE DESERT AQUACULTURE DEVELOPMENT THROUGH THE SMART USE OF WATER: SUCCESS STORIES

**12:40 Edoardo Pantanella, David Currie, Alessandro Lovatelli**

POTENTIALITIES FOR SUSTAINABLE AND INTEGRATED RECIRCULATING AQUACULTURE SYSTEMS (RAS) IN THE EMIRATES

**13:00 LUNCH**

**BREEDING AND HATCHERY**

Sunday, March 13 14:30 - 15:50 Abu Dhabi B

Chair: Patrick Sorgeloos

**14:30 Mohammad Tabish**

SHEIKH KHALIFA MARINE RESEARCH CENTER – A NEW IMPERATIVE FOR HATCHERY CAPACITY BUILDING AND AQUACULTURE DEVELOPMENT IN THE UNITED ARAB EMIRATES THROUGH PUBLIC-PRIVATE PARTNERSHIPS

**15:10 Tina Rogge, Jan Anné, Luc Roef, Jorien Fret, Mark Michiels**

MICROALGAE FROM THE PROVIAPT CLOSED PHOTOBIOREACTOR SYSTEM FOR AQUACULTURE

**15:30 Abdolmohammad Abedian Kenari, Seyedeh Sedigheh Babaei**CHANGES OF PROTEOLYTIC ENZYMES ACTIVITY IN PERSION STURGEON *Acipenser persicus* DURING LARVAL DEVELOPMENT**15:50 COFFEE BREAK****SHRIMP**

Sunday, March 13 16:10 - 17:50 Abu Dhabi B

Chair: Farshad Shishehchian

**16:10 Farshad Shishehchian**

ADVANCE SHRIMP FARMING: EMPHASIS ON INTENSIFICATION

**16:50 Eduardo Pantanella**

BIOFLOC AND RAS TECHNOLOGY APPLIED TO SHRIMP PRODUCTION

**17:10 Tina Rogge, Jan Anné, Jeroen Baeyens**

A NOVEL FEED ADDITIVE (PPROVIFEEDTMNOSPOT) WITH POTENTIAL FOR CONTROLLING WHITE SPOT SYNDROME VIRUS (WSSV) OUTBREAKS

**17:30 Sambhu Chithambaran, Abdulmohsen Sofyani, Mohammad Broom, Nasser K Ayaril**CULTURE STRATEGY OF PACIFIC WHITE SHRIMP *Litopenaeus vannamei* IN HDPE LINED PONDS**17:50 Abdolmohammad Abedian Kenari, Saeid Voshtani**COMBINATION EFFECTS OF PROBIOTIC PROTExIN AND MANNAN OLIGOSACCHARIDE AS DIETARY SUPPLEMENTS ON GROWTH AND INTESTINAL LACTIC ACID BACTERIA OF WHITE LEG SHRIMP *Litopenaeus vannamei*

# MONDAY, March 14

## AQUACULTURE DEVELOPMENT

Monday, March 14 10:00 - 11:10 Abu Dhabi B  
Chair: Türker Bodur

- 10:00 Türker Bodur**  
A REVIEW ON CURRENT STATUS OF AQUACULTURE IN TURKEY
- 10:30 Glenn R. Shiell, John Eyres, Steve Nel**  
BUILDING A FRAMEWORK FOR SUSTAINABLE AQUACULTURE DEVELOPMENT:  
A GOVERNMENT INITIATIVE TO RAPIDLY EXPAND AQUACULTURE IN WESTERN  
AUSTRALIA
- 10:50 Armaya'u Hamisu Bichi, Hassan Isiak Ibrahim, Akeem Babatunde Dauda**  
ASSESSMENT OF FISH PRODUCTION, CULTURE FACILITIES, OPERATIONS, WATER  
RESOURCES MANAGEMENT AND PROFITABILITY OF FISH FARMING IN KATSINA STATE,  
NIGERIA
- 11:10 COFFEE BREAK**

## PLENARY 2

11:15 Abu Dhabi B

**Eyesha Al Blooshi**  
AQUACULTURE IN ABU DHABI

## PRODUCTION SYSTEMS

Monday, March 14 11:45 - 13:05 Abu Dhabi B  
Chair: Haydar H. Al Sahtout

- 11:45 Haydar H. AL Sahtout**  
MODERN AQUACULTURE; THE GATEWAY TO THE BIO-MARINE ECONOMY ERA IN THE  
MIDDLE EAST
- 12:05 Ibrahim Belal, Jean-Yves Mevel, Radhakrishnan Subramanian**  
AQUAPONIC PRODUCTION SYSTEM OF LETTUCE *Lactuca sativa* AND NILE TILAPIA  
*Oreochromis niloticus* ARID LAND AREA AT A COMMERCIAL LEVEL
- 12:25 Mohamed Megahed**  
PROTOTYPES OF NON-TRADITIONAL INTENSIVE MARINE AQUACULTURE FOR COMMON  
SOLE *Solea solea* AND SHRIMP
- 12:45 Alejandro Rios G., Nahla Mezhoud**  
SEAWATER ENERGY AND AGRICULTURE SYSTEM

## INDUSTRY SESSIONS

Monday, March 14 11:45 - 12:45 Abu Dhabi A  
Chair Farshad Shishehchian

**11:45 Ray Clancy**, Marco Cremona  
PROVIDING LONG TERM PROTECTION FOR VALUABLE LIVE-STOCK USING “KIKKONET”  
IN FLOATING CAGE SYSTEMS

**12:05 Jens Toftdahl**  
USE OF WATER-BASED ANTIFOULING IN NET CAGES TO ENSURE GOOD WATER FLOW  
AND OXYGEN

**12:25 Jacob Bregnballe**  
INVESTING IN AQUACULTURE CALLS FOR PROFESSIONAL PROJECT APPROACH

**13:05 LUNCH**

**Round Table discussion**

**Panel:**

**Nutrition – Patrick Sorgeloos**

**Aquaculture Development – Turker Bodur**

**Shrimp – Farshad Shishehchian**

**Desert Aquaculture – Sherif Sadek**

**Production Systems & aquaponics – David Currie, Daniel Stechey**

## PLENARY 3

14:30 Abu Dhabi B

**Patrick Sorgeloos**

CAN AQUACULTURE BECOME THE NEW BLUE BIOTECHNOLOGY OF THE FUTURE?

## POSTERS

10:00-15:30 Abu Dhabi B

**Ibrahim Yilmaz**, Tunca, M. Olguner, Serpil Yilmaz  
Reducing Fishing Vessels From The Fleet For The Sustainable Fisheries In  
Turkey

**Serpil Yilmaz**, Ibrahim Yilmaz, Türker Bodur  
Ornamental Fish Market in Turkey

## NUTRITION

Monday, March 14 14:50 - 16:10 Abu Dhabi B

Chair: Patrick Sorgeloos

- 14:50 Murat Arslan**, Hilal Bayir  
OMEGA-3 CONTENT OF RAINBOW TROUT FILLET: HOW MUCH SHOULD WE CONSUME FOR ENOUGH EPA AND DHA?
- 15:10 Muhammad Ashraf**, Sajid Ali  
EFFECT OF *Linum usitatissimum* AND *Sesamum indicum* EXTRACT AS GROWTH PROMOTORS IN DIETS OF FINGERLINGS OF GRASS CARP *Ctenopharyngodon idella*
- 15:30 Adel Khams Solman**, Belal W. Mohamed, Asmaa T. Mohamed  
PROTEIN REQUIREMENTS OF STRIPED CATFISH *Pangasius hypophthalmus*
- 15:50 Hossein Khara**, Soheil Lameei, Mohammad Sayad Boorani  
EFFECTS OF DIFFERENT LEVELS OF FOLIC ACID AND VITAMIN B2 (RIBOFLAVIN) ON GROWTH, HEMATOLOGICAL AND IMMUNOLOGICAL PARAMETERS OF RAINBOW TROUT FINGERLING *Oncorhynchus mykiss*
- 16:10 COFFEE BREAK**

## CANADIAN SESSION

Monday, March 14 16:10 - 18:30 Abu Dhabi B

Chair: Daniel Stechey

- 16:30 Debbie Plouffe**  
THE CENTER FOR AQUACULTURE TECHNOLOGIES: CATALYZING THE BLUE REVOLUTION
- 16:50 Arvind Venkataraman**, Evan Bell  
INTRINSIC TOOLS FOR DIRECT ECONOMIC VALUE THROUGH ECOSYSTEM ENGINEERING IN AQUAPONICS
- 17:10 Robert Roulston**  
ALGAE PHOTOBIOREACTORS IN THE MIDDLE EAST
- 17:30 Dominique Bureau**  
AQKIMAS: A DATA COMPILATION, INTEGRATION AND ANALYSIS PLATFORM FOR AQUACULTURE NUTRITION RESEARCH
- 17:50 GJ Johnson**  
ATLANTIC HALIBUT FARMING: AN EMERGING ALTERNATIVE
- 18:10 Daniel Stechey**, Greg Beckman, W.D. (Bill) Robertson  
CONVERSION OF A COMMERCIAL GREENHOUSE INTO AN AQUAPONICS FACILITY AND THE ECONOMICS OF SMALL-SCALE (50-200 TONNES) RAS

## **ORGANISATION AND SCIENTIFIC COMMITTE**

Eng. Mariam Mohammed Saeed Hareb, Ministry of Environment and Water

Farshad Shishehchian, PhD., World Aquaculture Society

Patrick Sorgeloos, Prof. Dr., Gent University (retired)

Sherif S. Sadek, PHD., aquaculture Consultant Office (ACO), Egypt

Turker Bodur, PhD., Akdeniz University, Turkey

# NOTES

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