

ARIDLAND AQUACULTURE SYMPOSIUM

SYMPOSIUM

WORKSHOP

UAEU College of Food and Agriculture



جامعة الإمارات العربية المتحدة
United Arab Emirates University

SYMPOSIUM

24 & 25 March 2013

UAE University,
Al Ain, UAE

Features sessions on Case Studies, Environmental Benefits, Multi Industry Integration, Food Security & Population Health, Production & Marketing Issues and Strategy Workshops.

WORKSHOPS

26 & 27 March 2013

UAE University,
Al Ain, UAE

Recirculation Aquaculture Systems
Sponsored by Pentair,
featuring Dr Tom Losordo

Aquaponic Production
featuring Dr James Rakocy



Be part of history!

Over the years cooperation has brought considerable benefits to aquaculture development through dissemination of knowledge and expertise. Further strengthening of this cooperation at all levels will ensure increased benefits for the development and sustainability of desert and aridland aquaculture.

• Rural communities living in dry and arid regions are often among the poorest as the rigid climatic conditions dramatically reduce the variety and quantities of crops that can be adequately produced. Furthermore, the development of aquaculture as an economic activity may have positive socio-economic impacts on rural communities living in these climatically challenging regions in terms of improving the economic viability of farming activities in general while generating addition-

income and providing a healthy source of food to the local diet. Business and employment opportunities that may be generated may also help to avoid emigration from such areas. Additional research and the proposition of technical solutions are nevertheless required, particularly in terms of suitable feed and farming technologies that can be utilized in such areas. (FAO 2010)

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UAEU
Maqam Campus
Al Ain, UAE

Sponsors

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Training Integration
Organics
Aquaponic
Recirculation
System Research
Bio-security
Equipment
Feeds
Marketing
Food safety



Symposium Program Outline

Day 1 March 24, 2012

0845-0900	Welcome by UAEU's Vice Chancellor followed by APC WAS President Aridland Aquaculture Update
0900-0930	UAE
0930-1000	Saudi Arabia - Oman
1000-1030	Egypt
1030-1100	Coffee Break
1100-1130	Iran
1130-1200	Arizona - USA
1200-1230	Ethiopia
1230-1300	Marine fish production in arid land
1300-1400	Lunch
	Positive aspects of Aridland Aquaculture
1400-1430	Water resources and water harvesting
1430-1500	Underground Saline Water for aquaculture in Arid Land
1500-1530	Aquaculture for Population Nutrition
1530-1600	Seafood and nutrition
1600-1630	Coffee break
1630-1800	Work shop. Dr. Mével, UAEU, Moderator. General Session on aquaculture in the Middle east, looking forward

Slight changes in program may be necessary to accommodate last minute forces majeure

Day 2 March 25, 2012

	Multi-industry integration
0900-0930	Shrimp Intensive Recirculating system (RAS) for Aridland
0930-1000	Integrated marine aquaculture in Masdar
1000-1030	Integration of Recirculation Aquaculture Systems
1030-1100	Multi-industry integration
1100-1130	Coffee break
	Phytoplankton and biofuel production in Arid Land
1130-1200	Biofuel extraction Research in UAE
1200-1230	Neutraceuticals extracted from phytoplankton in USA
1230-1300	Recirculating Aquaculture Systems technology
1300-1400	Aquaponic a promising industry for UAE
1400-1500	Lunch
1500-16:00	Work shop. Dr. Imad Saoud, AUB, Moderator. General Session: More crop per drop and human health in arid land
1630-1800	Discussion and wrap up



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Recirculating Aquaculture System Workshop Agenda Tuesday, 26 March 2013

Morning Session

08:00: *Registration*

08:30: Welcome and Introductions

08:45: Critical Considerations in R A S

09:45: Tank Hydraulics & Settleable Solids Removal Processes

10:15 *Morning Coffee Break*

10:30: Settleable Solids Removal Processes (Continued)

10:45: Suspended Solids Removal Components

11:30: Biofiltration and Nitrification Processes and Components

12:30 *Lunch*

Afternoon Session

13:15: Aeration and Oxygenation Systems

14:00: Foam Fractionation and Fine Solids Removal

14:30: Planning and Building RAS Production Systems

15:00 *Afternoon Coffee Break*

15:15: Planning and Building RAS Production Systems

15:30: Management and Operations of RAS Production

16:00: Production Considerations in RAS Design

16:30: RAS Designs and Layouts

17:00 *Adjourn*

Location

UAEU Al Fallaj Campus within the brand new aquaponic system developed in the Aquaculture Research and Extension Station (ARES)

About the Presenter: Dr. Tom Losordo is the Director of Aquaculture Systems Engineering for Pentair Aquatic Eco-Systems. He leads a team of engineers and biologists in the design of cost effective and environmentally sustainable aquaculture production systems and aquatic life support systems for the global aquaculture and aquatic systems community.





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Aquaponic Production Workshop

Agenda

Wednesday, 27 March 2013

AGENDA

About the Workshop: Aquaponics is the combined culture of fish and plant crops in recirculating aquaculture systems. In aquaponic systems fish are raised intensively in tanks from which water is treated, circulated through hydroponics growing beds and returned to the fish rearing tanks. Nutrients excreted by the fish are used for the growth of vegetables, herbs and other valuable crops. Aquaponic technology in environmentally controlled greenhouses is ideal for arid countries because it produces large quantities of food in a limited space, reuses and conserves water and recycles nutrients.

This workshop will present the principles of aquaponics and an overview of the various aquaponic designs being used today with special emphasis on the system developed at the University of the Virgin Islands. Other topics covered will include the production of tilapia and various plant crops, water quality management and construction techniques.

Location

UAEU Al Fallaj Campus within the brand new aquaponic system developed in the Aquaculture Research and Extension Station (ARES)

About the Presenter: Dr. James Rakocy has been involved with aquaponic R & D for 36 years. a M.S. degree in environmental biology from the University of North Carolina and a Ph.D. degree in aquaculture from Auburn University. At the University of the Virgin Islands he led a team of researchers for 30 years in the development of the UNI aquaponic system, which has become the basis of many commercial operations. In 1999 he initiated an annual training program at UNI that attracted 566 students from 45 U.S. states and territories and 56 other countries before his retirement.

<http://www.thenational.ae/news/uac-news/new-aquaponics-unit-to-open-at-al-ain>





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and Agriculture

Come and share your knowledge,
technology, information, ideas, and let us work
together to build aquaculture in our region!

Conference will accept Cash on arrival on the following basis:

In order to reserve a seat you will need to email to:

Dr. Jean-Yves Mével, Assistant Professor, Aquaculture
Engineering, Aridland Department, UAEU
Email: jean.mével@uaeu.ac.ae

Email the following Information for badge printing

- Complete name
- Company / Department
- Title
- City
- Country

Payment

- **MENA region's residents only special discounted fees**
- 2 days Symposium: US\$ 120 or AED 440
- 2days workshop: US\$ 200 or AED 920

Recommendation

- Why reserve a seat as soon as possible
- Only limited seat for symposium (no more than 200 seats)
- Only limited seat for Workshop (only 40 seats)



If you are interested to sponsor this event, there is still time to do so

- please contact Dr. Jean-Yves Mével
- Email: jean.mével@uaeu.ac.ae



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