RECIRCULATING AQUACULTURE SYSTEMS (RAS) & AQUAPONICS Design, Engineering, Operation, and Management 15-19 January 2016 ASIAN INSTITUTE OF TECHNOLOGY, THAILAND

PROGRAMME

Thursday, 14 January 2016 Arrival and check in at AITCC Hotel

Day 1 (Friday, 15 January 2016)

7.30 – 8.30 am	Breakfast			
9.00 am – 9.30 am	Opening session			
9.30-10 am	Group photo			
TECHNICAL SESSIONS				
Recirculating Aquaculture System Engineering (Dr. James Ebeling)				
10 – 11 am	Technical session 1	 Overview of RAS Systems Engineering 		
11 -11.15 am	Coffee break			
11.15 am – 12.30 pm	Technical session 2	 Engineering Design – Mass balance Loading and Growth 		
12.30 – 1.30 pm	Lunch			
1.30 – 2.45 pm	Technical session 3	Water QualityCulture Tank Design		
2.45 – 3 pm	Coffee break			
3 – 4 pm	Technical session 4	 Solids capture Waste Treatment and Effluent Management 		
4 – 5 pm	Interactive session	• Q & A		
6.30 – 8 pm	Welcome Dinner			
Day 2 (Saturday, 16 January 2016)				
Recirculating Aquaculture System Engineering (Dr. James Ebeling)				
7.30 – 8.30 am	Breakfast			
9 – 10.30 am	Technical session 5	 Circulation/Pipe Flow and Pumps Biofiltration/Denitrification 		
10.30 – 11 am	Coffee break			
11 am – 12.30 pm	Technical session 6	 Gas Transfer – Oxygen/CO₂ A design example 		
12.30 – 1.30 pm	Lunch			
1.30 – 2.45 pm	Technical session 7	 Biosecurity and Fish Health Economics and Risk Assessment 		
2.45 – 3 pm	Coffee break			
3 PM – 5 pm	Technical session 8	 Group Task: Design of a Grow-out System Q & A 		

Day 3 (Sunday, 17 January 2016) Low Cost RAS and Aquaponics Integration in the Tropics (Dr. Wilson Lennard)			
7.30 – 8.30 am	Breakfast		
9 – 10.45 am	Technical session 9	 Overview of Low cost RAS and Aquaponics 	
10.45 – 11 am	Coffee break		
11 am - 12.30 pm	Technical session 10	• Principles of Low cost RAS approach	
12.30 – 1.30 pm	Lunch		
1.30 – 2.45 pm	Technical session 11	 Low Cost RAS Design Low Cost Fish Tanks and Filter Designs and Choices 	
2.45 – 3 pm	Coffee break		
3 – 4 pm	Technical session 12	 Low Cost RAS Management Protective Low Cost RAS & Aquaponic Structures for the Tropics 	
4 – 5 pm	Interactive session	• Q&A	
Recirculating Systems for Public Aquarium (Dr. Vorathep Muthuwan) Day 5 (Tuesday, 19 January 2016) TECHNICAL SESSION, Continued Low Cost RAS and Aquaponics Integration in the Tropics (Dr. Wilson Lennard)			
7.30 – 8.30 am	Breakfast		
9 – 10.45 am	Technical session 14	 Aquaponic System Design and Sizing Deep Flow Hydroponic Component Design and Sizing 	
10.45 – 11 am	Coffee break		
11 am – 12.30 pm	Technical session 15	 Aquaponic Nutrient Dynamics Commercial Aquaponic System Management and Operation 	
12.30 – 1.30 pm	Lunch		
1.30 – 2.45 pm	Technical session 16	 Aquaponic System Buffering Regimes and species Aquaponic Food Safety 	
2.45 – 3 pm	Coffee break		
3 – 4 pm	Interactive session	• Q&A	
4 – 5 pm	Closing session		
Wednesday, 20 January 2016			
Departure / AIT-WAS Smart Shrimp Farming Workshop (from 20 – 22 Jan 2016)			