RECIRCULATION SYSTEMS AND THEIR APPLICATION IN AQUACULTURE October 24 – 28 IFREMER Sète (France)

	Monday	Tuesday	Wednesday	Thursday	Friday		
8:30-9:30	Introduction	Soluble and particulate matter quantifications	Basics of gas transfer oxygenation/degassing	Low energy RAS	Mini seminar with industry partners:		
	JP. Blancheton Ifremer	E. Eding WU	R. Piedrahita	PB. Pedersen DTU	JM Moulin LPDS (hatchery and pregrowing		
9:30 – 10:30	Water quality and fish requirements, accumulating substances	Suspended solids characterization and control / removal	Biofiltration and bacterial environment	Energy control in RAS design	Aqualand group production) P. Cacot LPDS (new		
	V. Mota (Nofima)	R. Piedrahita	O. Vadstein NTNU	PB. Pedersen DTU	species and systems Aqualand group R&D)		
Coffee break							
10:45 – 11:45	Water quality optimisation using ORP	Small solid removal processes	Bacterial control and bio-security	Waste treatment and valorization	Mini seminar continued		
	J. Bosmans IDEE	B. Barrut Coldep	K. Attramadal NTNU	V. Dumas INRA	J Bosmans IDEE (Engineering company)		
11:45 – 12:45	Fish, consumptions and productions: nutrient balance and model	Mass balance basics nitrification kinetics Biofilter sizing	Low energy RAS Seaweeds in integrated aquaculture	Environmental impact, IMTA and risk assessment	B. Barrut, COLDEP (Engineering company) A. Lebreton VETAEU (veterinary company)		
	E. Eding WU	JP. Blancheton Ifremer	P. Cacot LPDS	M. Callier Ifremer			
Lunch break							
14:15 – 17:45	Visit: Palavas Ifremer research station	Design exercises	Design exercises	Visit: RAS seabass, seabream and meager pregrowing farm	FREE		