1st IWA Conference on Algal Technologies for Wastewater Treatment and Resource Recovery

16th of March 2017

		Title	Presenter	Affiliation
8.30-9.45	Registration			
9.45 - 10.15	Opening		Peter van der Steen Chair Organising Committee	UNESCO-IHE
			Tom Williams IWA Programmes Director	International Water Association
10.15 - 11.00	Key note 1	Microalgae in the circular economy	Prof. dr. ir. Rene Wijffels	Wageningen University, the Netherlands
11.00-11.15	Poster session 1	Poster pitches		
11.15 - 11.45	Break			
		Session chair: Carlos Lopez, UNESCO-IHE		
11.45 - 13.00	Session 1	**Algae systems in a circular economy**		
		Valorization strategies for food-industry-effluent-grown MaB-flocs: The biorefinery concept of phycobiliproteins, neophytadiene and biogas	Sofie van den Hende	Centro Nacional de Acuicultura e Investigaciones Marinas, Ecuador
		Techno-economic assessment of microalgae production using wastewater treatment effluents as nutrient source	Jonathan Moncado	Copernicus Institute of Sustainable Development,

				Utrecht University, the Netherlands
		Comparative life cycle assessment of high rate algal ponds and activated sludge wastewater treatment system	Marianna Garfí	Universitat Politècnica de Catalunya – BarcelonaTech, Spain
13.00-14.15	Lunch			
		Session chair: Anthony Verschoor, WETSUS		
14.15-15.30	Session 2	**Algae based wastewater treatment for nutrient removal and recovery (1)**		
		Nutrient Removal and microalgal biomass production from digestate in a pilot-scale photobioreactor	Simone Rossi	Politecnico di Milano, Italy
		Biological nitrogen removal in a photo-sequencing batch reactor with algae-nitrification-anammox granules	Jack van de Vossenberg	UNESCO-IHE, the Netherlands
		Immobilized axenic phototrophic biofilms for wastewater treatment	Johann Bauerfeind	Solaga, Germany
15.30-16.00	Break			
		Session chair: Sofie van den Hende, Centro Nacional de Acuicultura e Investigaciones Marinas, Ecuador		
16.00-17.15	Session 3	**Experimental methods, algal respirometry, monitoring, modeling and process control (1)**		
		Determination of microalgae-bacteria and microalgae consortia growth kinetics using a respirometer-titrimetric setup	Angélica Rada	UNESCO-IHE, the Netherlands
		A combined respirometric-titrimetric setup for the development, calibration and validation of a model describing the microalgal growth rate	Dave Manhaeghe	Ghent University, Belgium
		Development of Selective Pressures for Nitrogen and Phosphorus Recovery by Microalgae Across Diurnal Cycles	Ian Bradley	University of Illinois at Urbana-Champaign, USA
17.15 - 17.30	Poster session 2	Poster pitches		
19.00-	Conference dinner			

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		Title	Presenter	Affiliation
10.00-10.45	Key note	Algae based wastewater treatment for nutrient removal and recovery: From concept to reality.	Dr. Zouhayr Arbib	FCC Aqualia, Spain
10.45-11.00	Poster session 3	Poster pitches		
11.00-11.30	Break			
		Session chair: Hardy Temminck, Wageningen University		
11.30-12.45	Session 4	**Algae based wastewater treatment for nutrient removal and recovery (2)**		
		Does the solar irradiance levels affect the agglomeration properties of the microalgae-bacterial biomass used to treat municipal wastewater in a HRAP?	Germán Buitrón	Universidad Nacional Autónoma de México, Mexico
		Is the primary treatment of wastewater needed in high rate algal ponds systems?	Larissa Arashiro	Universitat Politècnica de Catalunya – BarcelonaTech, Spain
		Recycling nutrients from black water – How far should we go for full recovery?	Tânia Vasconcelos Fernandes	Netherlands Institute of Ecology, the Netherlands
12.45-13.00	Poster session 4	Poster pitches		
		Poster Award Ceremony		
13.00-14.15	Lunch			
		Session chair: Germán Buitrón, Universidad Nacional Autónoma de México, Mexico		

14.15-15.30	Session 5	**Experimental methods, algal respirometry, monitoring, modeling and process control (2)**		
		The role played by predators in a high rate algal pond for wastewater treatment	Bernard Olivier	Université Cote d'Azur, INRIA, INRA, France
		Dynamic bio-kinetic modelling for green microalgae/bacteria culture and interaction: development, implementation and mass balance check	Beline Fabrice	Irstea, UR OPAALE, France
		Microalgae & Bacteria model to simulate microalgae growth in wastewater: Validation and application to wastewater biotreatment systems	A. Solimeno	Universitat Politècnica de Catalunya – BarcelonaTech, Spain
15.30-16.00	Break			
		Session chair: Angélica Rada, UNESCO-IHE		
16.00-17.15	Session 6	**Waste gas treatment, greenhouse gas capture and biogas production**		
		Biogas upgrading coupled with centrate treatment in an outdoors pilot scale high rate algal pond	Raul Munoz Torre	Valladolid University, Spain
		Utilization of carbon dioxide in biogas as carbon source for indigenous microalgae cultivation with treated effluents	Yugo Takabe	Public Works Research Institute, Japan
		Use of papaya waste to co-digest microalgae-bacterial biomass generated during sewage treatment	Germán Buitrón	Universidad Nacional Autónoma de México, Mexico
17.15 – 17.30	Closing		Johan Aad van Dijk Business Director	UNESCO-IHE
17.30 – 19.00	Drinks			