

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

16th of March 2017

Preliminary programme

		Title	Presenter	Affiliation
8.00-9.15	Registration			
9.15-9.45	Opening			
9.45- 10.30	Key note 1		Prof. dr. ir. Rene Wijffels	Wageningen University, the Netherlands
10.30-10.45	Poster session 1	Poster pitches		
10.45-11.15	Break			
11.15 - 12.30	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

12.30-14.00	Lunch			
14.00-15.15	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
		Towards energy neutral microalgae-based wastewater treatment plants	Fabiana Passos	Universitat Politècnica de Catalunya – BarcelonaTech, Spain
		Biological nitrogen removal in a photo-sequencing batch reactor with algae-nitrification-anammox granules	Jack van de Vossenberg	UNESCO-IHE, the Netherlands
15.15-15.45	Break			
15.45-17.00	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	Jeremy Guest	University of Illinois at Urbana-Champaign, USA
17.00 - 17.15	Poster session 2	Poster pitches		
19.00-	Conference dinner			

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9.30-10.15	Key note		Frank Rogalla, Director of Innovation and Technology	FCC Aqualia, Spain
10.15-10.30	Poster session 3	Poster pitches		
10.30-11.00	Break			
11.00-12.15	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?	Juan Sebastián Arcila	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
12.15-12.30	Poster session 4	Poster pitches		
12.30-13.00	Lunch			
13.00-14.15	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	Carlos Martínez	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
14.15-14.45	Break			
14.45-16.00	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
16.00 - 17.00	Drinks			