

	Tuesda	ay 17 th of September 2013
18h00-20h00		velcome cocktail (at Salle des Synodes)
	_	day 18 th of September 2013
08h00-08h30		ation (at Narbonne theatre)
08h30-09h00		ction talks (plenary session)
001.00.001.45		trol and Automation in wastewater - what happened from
09h00-09h45		Gustaf Olsson, chairman: Peter Vanrolleghem, Canada
09h45-10h20		ee break & poster session
	10h20-12h00: 1	1 st parallel session
W1.1- New ser	nsors for monitoring WWTPs, rivers and	W2.1- New control strategies for improving WWTP
	sewer systems	performances
	eue, chairman: Elena Ficara, Italy	room beige, chairman: Victor Alcaraz, Mexico
	as online monitoring tool for rivers and	Establishment of control strategies for chemically enhanced
	A. Pallarès, S. Fischer, X. France, L. Pace, M.N.	primary treatment based on online turbidity data, S Tik, S
Pons, P. Schmitt	22	Langlois, PA Vanrolleghem
FRANCE, IWA-1259	EIS sensor to monitor corrosion in cast iron	CANADA, IWA-12700 Effect of Sensor Location on Controller Performance in a
		, Wastewater Treatment Plant, U Rehman, M Vesvikar, T Maere, L
	M Velasco Droguet, C Lagunas Calpe, C	Guo, P Vanrolleghem, I Nopens
Müller Jevenois	and the second of the second o	BELGIUM, IWA-12707
SPAIN, IWA-12676		
	d fluorimeters, A Gutierrez, A Assaad, Y	Better treatment efficiencies and process economics with real-
-	X France, N Adouani, MN Pons	time coagulant dosing control, L Wei, H. Ratnaweera, S. Heping
FRANCE, IWA-1260		NORWAY, IWA-12674
	vity as a state indicator for the start-up	A novel control strategy for an efficient EBPR removal in WWTP:
Ribes, JP Steyer	ic fixed-film reactors, Á. Robles, E Latrille, J	in-silico optimisation and experimental validation, J Guerrero, A Guisasola, JA Baeza
SPAIN, IWA-12748		SPAIN IWA-12653
	quantify intracellular accumulation of	Advanced Sludge Age Control Improves Wastewater Treatment
	EBPR systems, DP Mesquita, AL Amaral, C a, JR Cunha, A Oehmen, MAM Reis, EC Ferreira	and Hydraulic Capacity, MBO Andersen, H Thomsen, T Guildal
PORTUGAL, IWA-1		adelivianik, iwa-12300
12h00-13h00		Lunch
13h00-14h00	ICA Scientific Grou	p meeting (facultative but open to all)
	14h00-15h40: 2	and parallel session
W1.2- Integra	ation of O ₂ and N ₂ O measurements for	
_		
	improved performances	W2.2- New softwares for WWTP simulation and control
room bleue.	improved performances chairman: Marie-Noëlle Pons, France	W2.2- New softwares for WWTP simulation and control <i>room beige,</i> chairman: Jens Alex, Germany
	chairman: Marie-Noëlle Pons, France	room beige, chairman: Jens Alex, Germany
A novel microelec		room beige, chairman: Jens Alex, Germany Experience using auto-adjustment for improving sensor signal
A novel microelec	chairman: Marie-Noëlle Pons, France trode-based online system for monitoring ring wastewater treatment, R Marques, A	room beige, chairman: Jens Alex, Germany
A novel microelect N ₂ O emissions dur	chairman: Marie-Noëlle Pons, France trode-based online system for monitoring ring wastewater treatment, R Marques, A	room beige, chairman: Jens Alex, Germany Experience using auto-adjustment for improving sensor signal robustness at two large wastewater treatment plants, D Lumley,
A novel microelect N₂O emissions dur Oehmen, M Pijuan PORTUGAL, IWA-1 Online monitoring	chairman: Marie-Noëlle Pons, France trode-based online system for monitoring ring wastewater treatment, R Marques, A 2639 of dissolved N ₂ O concentrations based on	room beige, chairman: Jens Alex, Germany Experience using auto-adjustment for improving sensor signal robustness at two large wastewater treatment plants, D Lumley, P Lindell, P Lindqvist, M Heinonen SWEDEN, IWA-12649 Model-based optimization of aeration systems in WWTPs, S
A novel microelect N₂O emissions dur Oehmen, M Pijuan PORTUGAL, IWA-1 Online monitoring gas phase measure	chairman: Marie-Noëlle Pons, France trode-based online system for monitoring ring wastewater treatment, R Marques, A 2639	room beige, chairman: Jens Alex, Germany Experience using auto-adjustment for improving sensor signal robustness at two large wastewater treatment plants, D Lumley, P Lindell, P Lindqvist, M Heinonen SWEDEN, IWA-12649 Model-based optimization of aeration systems in WWTPs, S Beltrán, I Irizar, A de la Sota, J María Villanueva, E Ayesa
A novel microelect N₂O emissions dur Oehmen, M Pijuan PORTUGAL, IWA-1 Online monitoring gas phase measure EIP Volcke	chairman: Marie-Noëlle Pons, France trode-based online system for monitoring ring wastewater treatment, R Marques, A 2639 of dissolved N ₂ O concentrations based on ements, KE Mampaey, MCM van Loosdrecht,	room beige, chairman: Jens Alex, Germany Experience using auto-adjustment for improving sensor signal robustness at two large wastewater treatment plants, D Lumley, P Lindell, P Lindqvist, M Heinonen SWEDEN, IWA-12649 Model-based optimization of aeration systems in WWTPs, S
A novel microelect N ₂ O emissions dur Oehmen, M Pijuan PORTUGAL, IWA-1 Online monitoring gas phase measure EIP Volcke BELGIUM, IWA-120	chairman: Marie-Noëlle Pons, France trode-based online system for monitoring ring wastewater treatment, R Marques, A 2639 4 of dissolved N ₂ O concentrations based on ements, KE Mampaey, MCM van Loosdrecht,	Experience using auto-adjustment for improving sensor signal robustness at two large wastewater treatment plants, D Lumley, P Lindell, P Lindqvist, M Heinonen SWEDEN, IWA-12649 Model-based optimization of aeration systems in WWTPs, S Beltrán, I Irizar, A de la Sota, J María Villanueva, E Ayesa SPAIN, IWA-12581
A novel microelect N ₂ O emissions dur Oehmen, M Pijuan PORTUGAL, IWA-1 Online monitoring gas phase measure EIP Volcke BELGIUM, IWA-120 Energy Footprint Co	chairman: Marie-Noëlle Pons, France trode-based online system for monitoring ring wastewater treatment, R Marques, A 2639 tof dissolved N ₂ O concentrations based on ements, KE Mampaey, MCM van Loosdrecht, 645 umparison of Activated Sludge versus Moving	Experience using auto-adjustment for improving sensor signal robustness at two large wastewater treatment plants, D Lumley, P Lindell, P Lindqvist, M Heinonen SWEDEN, IWA-12649 Model-based optimization of aeration systems in WWTPs, S Beltrán, I Irizar, A de la Sota, J María Villanueva, E Ayesa SPAIN, IWA-12581 A novel simulation platform to test WWTP control options, J
A novel microelect N ₂ O emissions dur Oehmen, M Pijuan PORTUGAL, IWA-1 Online monitoring gas phase measure EIP Volcke BELGIUM, IWA-120 Energy Footprint Co Biofilm Processes us	chairman: Marie-Noëlle Pons, France trode-based online system for monitoring ring wastewater treatment, R Marques, A 2639 Tof dissolved N ₂ O concentrations based on ements, KE Mampaey, MCM van Loosdrecht, 645 Imparison of Activated Sludge versus Moving sing In-line Oxygen Transfer Efficiency Signals, D	Experience using auto-adjustment for improving sensor signal robustness at two large wastewater treatment plants, D Lumley, P Lindell, P Lindqvist, M Heinonen SWEDEN, IWA-12649 Model-based optimization of aeration systems in WWTPs, S Beltrán, I Irizar, A de la Sota, J María Villanueva, E Ayesa SPAIN, IWA-12581 A novel simulation platform to test WWTP control options, J Alex, M Ogurek, M Schütze
A novel microelect N ₂ O emissions dur Oehmen, M Pijuan PORTUGAL, IWA-1 Online monitoring gas phase measure EIP Volcke BELGIUM, IWA-120 Energy Footprint Co Biofilm Processes us Rosso, MK. Jeung, LI	chairman: Marie-Noëlle Pons, France trode-based online system for monitoring ring wastewater treatment, R Marques, A 2639 tof dissolved N ₂ O concentrations based on ements, KE Mampaey, MCM van Loosdrecht, 645 imparison of Activated Sludge versus Moving sing In-line Oxygen Transfer Efficiency Signals, D E Larson, LM Jiang, MK Stenstrom	Experience using auto-adjustment for improving sensor signal robustness at two large wastewater treatment plants, D Lumley, P Lindell, P Lindqvist, M Heinonen SWEDEN, IWA-12649 Model-based optimization of aeration systems in WWTPs, S Beltrán, I Irizar, A de la Sota, J María Villanueva, E Ayesa SPAIN, IWA-12581 A novel simulation platform to test WWTP control options, J
A novel microelect N ₂ O emissions dur Oehmen, M Pijuan PORTUGAL, IWA-1 Online monitoring gas phase measure EIP Volcke BELGIUM, IWA-120 Energy Footprint Co Biofilm Processes us Rosso, MK. Jeung, LI UNITED STATES, IV	chairman: Marie-Noëlle Pons, France trode-based online system for monitoring ring wastewater treatment, R Marques, A 2639 tof dissolved N ₂ O concentrations based on ements, KE Mampaey, MCM van Loosdrecht, 645 imparison of Activated Sludge versus Moving sing In-line Oxygen Transfer Efficiency Signals, D E Larson, LM Jiang, MK Stenstrom	Experience using auto-adjustment for improving sensor signal robustness at two large wastewater treatment plants, D Lumley, P Lindell, P Lindqvist, M Heinonen SWEDEN, IWA-12649 Model-based optimization of aeration systems in WWTPs, S Beltrán, I Irizar, A de la Sota, J María Villanueva, E Ayesa SPAIN, IWA-12581 A novel simulation platform to test WWTP control options, J Alex, M Ogurek, M Schütze
A novel microelect N ₂ O emissions dur Oehmen, M Pijuan PORTUGAL, IWA-1 Online monitoring gas phase measure EIP Volcke BELGIUM, IWA-120 Energy Footprint Co Biofilm Processes us Rosso, MK. Jeung, LI UNITED STATES, IV Aeration control in treatment plant: in	chairman: Marie-Noëlle Pons, France trode-based online system for monitoring ring wastewater treatment, R Marques, A 2639 g of dissolved N ₂ O concentrations based on ements, KE Mampaey, MCM van Loosdrecht, 645 comparison of Activated Sludge versus Moving sing In-line Oxygen Transfer Efficiency Signals, D E Larson, LM Jiang, MK Stenstrom VA-12695 In a full-scale activated sludge wastewater impact on performances, energy consumption	Experience using auto-adjustment for improving sensor signal robustness at two large wastewater treatment plants, D Lumley, P Lindell, P Lindqvist, M Heinonen SWEDEN, IWA-12649 Model-based optimization of aeration systems in WWTPs, S Beltrán, I Irizar, A de la Sota, J María Villanueva, E Ayesa SPAIN, IWA-12581 A novel simulation platform to test WWTP control options, J Alex, M Ogurek, M Schütze GERMANY, IWA-12604
A novel microelect N₂O emissions dur Oehmen, M Pijuan PORTUGAL, IWA-1 Online monitoring gas phase measure EIP Volcke BELGIUM, IWA-120 Energy Footprint Co Biofilm Processes us Rosso, MK. Jeung, LI UNITED STATES, IV Aeration control in treatment plant: in and N₂O emission,	chairman: Marie-Noëlle Pons, France trode-based online system for monitoring ring wastewater treatment, R Marques, A 2639 g of dissolved N ₂ O concentrations based on ements, KE Mampaey, MCM van Loosdrecht, 645 comparison of Activated Sludge versus Moving sing In-line Oxygen Transfer Efficiency Signals, D E Larson, LM Jiang, MK Stenstrom VA-12695 In a full-scale activated sludge wastewater	Experience using auto-adjustment for improving sensor signal robustness at two large wastewater treatment plants, D Lumley, P Lindell, P Lindqvist, M Heinonen SWEDEN, IWA-12649 Model-based optimization of aeration systems in WWTPs, S Beltrán, I Irizar, A de la Sota, J María Villanueva, E Ayesa SPAIN, IWA-12581 A novel simulation platform to test WWTP control options, J Alex, M Ogurek, M Schütze GERMANY, IWA-12604 A Generalized Excel/C-compatible Simulink-based nimplementation architecture for fast model development and simulations, T Oyetunde, R Gonzalez-Cabaleiro, F Ahmad, J
A novel microelect N ₂ O emissions dur Oehmen, M Pijuan PORTUGAL, IWA-1 Online monitoring gas phase measure EIP Volcke BELGIUM, IWA-120 Energy Footprint Co Biofilm Processes us Rosso, MK. Jeung, LI UNITED STATES, IV Aeration control in treatment plant: in and N ₂ O emission, Nauleau, S Gillot	chairman: Marie-Noëlle Pons, France trode-based online system for monitoring ring wastewater treatment, R Marques, A 2639 g of dissolved N ₂ O concentrations based on ements, KE Mampaey, MCM van Loosdrecht, 645 Imparison of Activated Sludge versus Moving sing In-line Oxygen Transfer Efficiency Signals, D E Larson, LM Jiang, MK Stenstrom VA-12695 n a full-scale activated sludge wastewater mact on performances, energy consumption, A Filali, Y Fayolle, P Peu, L Philippe, F	Experience using auto-adjustment for improving sensor signal robustness at two large wastewater treatment plants, D Lumley, P Lindell, P Lindqvist, M Heinonen SWEDEN, IWA-12649 Model-based optimization of aeration systems in WWTPs, S Beltrán, I Irizar, A de la Sota, J María Villanueva, E Ayesa SPAIN, IWA-12581 A novel simulation platform to test WWTP control options, J Alex, M Ogurek, M Schütze GERMANY, IWA-12604 A Generalized Excel/C-compatible Simulink-based nimplementation architecture for fast model development and simulations, T Oyetunde, R Gonzalez-Cabaleiro, F Ahmad, J Rodriguez
A novel microelect N ₂ O emissions dur Oehmen, M Pijuan PORTUGAL, IWA-1 Online monitoring gas phase measure EIP Volcke BELGIUM, IWA-120 Energy Footprint Co Biofilm Processes us Rosso, MK. Jeung, LI UNITED STATES, IV Aeration control in treatment plant: in and N ₂ O emission, Nauleau, S Gillot FRANCE, IWA-1264	chairman: Marie-Noëlle Pons, France trode-based online system for monitoring ring wastewater treatment, R Marques, A 2639 g of dissolved N ₂ O concentrations based on ements, KE Mampaey, MCM van Loosdrecht, 645 emparison of Activated Sludge versus Moving sing In-line Oxygen Transfer Efficiency Signals, D E Larson, LM Jiang, MK Stenstrom VA-12695 n a full-scale activated sludge wastewater empact on performances, energy consumption pack A Filali, Y Fayolle, P Peu, L Philippe, F	Experience using auto-adjustment for improving sensor signal robustness at two large wastewater treatment plants, D Lumley, P Lindell, P Lindqvist, M Heinonen SWEDEN, IWA-12649 Model-based optimization of aeration systems in WWTPs, S Beltrán, I Irizar, A de la Sota, J María Villanueva, E Ayesa SPAIN, IWA-12581 A novel simulation platform to test WWTP control options, J Alex, M Ogurek, M Schütze GERMANY, IWA-12604 A Generalized Excel/C-compatible Simulink-based nimplementation architecture for fast model development and simulations, T Oyetunde, R Gonzalez-Cabaleiro, F Ahmad, J Rodriguez UNITED ARAB EMIRATES, IWA-12626
A novel microelect N ₂ O emissions dur Oehmen, M Pijuan PORTUGAL, IWA-1 Online monitoring gas phase measure EIP Volcke BELGIUM, IWA-120 Energy Footprint Co Biofilm Processes us Rosso, MK. Jeung, LI UNITED STATES, IV Aeration control in treatment plant: in and N ₂ O emission, Nauleau, S Gillot FRANCE, IWA-1264 Microsensors for co	chairman: Marie-Noëlle Pons, France trode-based online system for monitoring ring wastewater treatment, R Marques, A 2639 g of dissolved N ₂ O concentrations based on ements, KE Mampaey, MCM van Loosdrecht, 645 Imparison of Activated Sludge versus Moving sing In-line Oxygen Transfer Efficiency Signals, D E Larson, LM Jiang, MK Stenstrom VA-12695 In a full-scale activated sludge wastewater impact on performances, energy consumption In A Filali, Y Fayolle, P Peu, L Philippe, F 41 Dividation reduction potential and dissolved	Experience using auto-adjustment for improving sensor signal robustness at two large wastewater treatment plants, D Lumley, P Lindell, P Lindqvist, M Heinonen SWEDEN, IWA-12649 Model-based optimization of aeration systems in WWTPs, S Beltrán, I Irizar, A de la Sota, J María Villanueva, E Ayesa SPAIN, IWA-12581 A novel simulation platform to test WWTP control options, J Alex, M Ogurek, M Schütze GERMANY, IWA-12604 A Generalized Excel/C-compatible Simulink-based nimplementation architecture for fast model development and simulations, T Oyetunde, R Gonzalez-Cabaleiro, F Ahmad, J Rodriguez UNITED ARAB EMIRATES, IWA-12626 Automatic system for microbial fuel cells colonization, IJ López-
A novel microelect N ₂ O emissions dur Oehmen, M Pijuan PORTUGAL, IWA-1 Online monitoring gas phase measure EIP Volcke BELGIUM, IWA-120 Energy Footprint Co Biofilm Processes us Rosso, MK. Jeung, LI UNITED STATES, IV Aeration control in treatment plant: in and N ₂ O emission, Nauleau, S Gillot FRANCE, IWA-1264 Microsensors for coxygen measurem	chairman: Marie-Noëlle Pons, France trode-based online system for monitoring ring wastewater treatment, R Marques, A 2639 g of dissolved N ₂ O concentrations based on ements, KE Mampaey, MCM van Loosdrecht, 645 emparison of Activated Sludge versus Moving sing In-line Oxygen Transfer Efficiency Signals, D E Larson, LM Jiang, MK Stenstrom VA-12695 In a full-scale activated sludge wastewater empact on performances, energy consumption y A Filali, Y Fayolle, P Peu, L Philippe, F 11 Dividation reduction potential and dissolved lients inside biofilms, A Wagner Lamon, B Cruz	Experience using auto-adjustment for improving sensor signal robustness at two large wastewater treatment plants, D Lumley, P Lindell, P Lindqvist, M Heinonen SWEDEN, IWA-12649 Model-based optimization of aeration systems in WWTPs, S Beltrán, I Irizar, A de la Sota, J María Villanueva, E Ayesa SPAIN, IWA-12581 A novel simulation platform to test WWTP control options, J Alex, M Ogurek, M Schütze GERMANY, IWA-12604 A Generalized Excel/C-compatible Simulink-based nimplementation architecture for fast model development and simulations, T Oyetunde, R Gonzalez-Cabaleiro, F Ahmad, J Rodriguez UNITED ARAB EMIRATES, IWA-12626 Automatic system for microbial fuel cells colonization, IJ López-Prieto, I Torres Zúñiga, A Vargas, G Buitrón
A novel microelect N ₂ O emissions dur Oehmen, M Pijuan PORTUGAL, IWA-1 Online monitoring gas phase measure EIP Volcke BELGIUM, IWA-120 Energy Footprint Co Biofilm Processes us Rosso, MK. Jeung, LI UNITED STATES, IV Aeration control in treatment plant: in and N ₂ O emission, Nauleau, S Gillot FRANCE, IWA-1264 Microsensors for coxygen measurem	chairman: Marie-Noëlle Pons, France trode-based online system for monitoring ring wastewater treatment, R Marques, A 2639 g of dissolved N ₂ O concentrations based on ements, KE Mampaey, MCM van Loosdrecht, 645 emparison of Activated Sludge versus Moving sing In-line Oxygen Transfer Efficiency Signals, D E Larson, LM Jiang, MK Stenstrom VA-12695 In a full-scale activated sludge wastewater empact on performances, energy consumption y, A Filali, Y Fayolle, P Peu, L Philippe, F 11 Dividation reduction potential and dissolved tents inside biofilms, A Wagner Lamon, B Cruz ra Almeida, J Roberto Campos	Experience using auto-adjustment for improving sensor signal robustness at two large wastewater treatment plants, D Lumley, P Lindell, P Lindqvist, M Heinonen SWEDEN, IWA-12649 Model-based optimization of aeration systems in WWTPs, S Beltrán, I Irizar, A de la Sota, J María Villanueva, E Ayesa SPAIN, IWA-12581 A novel simulation platform to test WWTP control options, J Alex, M Ogurek, M Schütze GERMANY, IWA-12604 A Generalized Excel/C-compatible Simulink-based nimplementation architecture for fast model development and simulations, T Oyetunde, R Gonzalez-Cabaleiro, F Ahmad, J Rodriguez UNITED ARAB EMIRATES, IWA-12626 Automatic system for microbial fuel cells colonization, IJ López-

	ee break & poster session			
16h10-17h50: 3 rd parallel session				
W1.3- Spectral methods for pollution characterization	•			
and bioprocess control	dynamics			
room bleue, chairman: Leiv Rieger, Canada	room beige, chairman: Changwon Kim, Korea			
Lab-scale Anaerobic Digester Follow-up by Near Infra-Red	Dynamics of N ₂ O emission from partial nitritation-anammox in a			
Spectroscopy, A Boulanger, AF Coutier, A Ponthieux, C Laroche, R Treguer, M Poitrenaud, JA Cacho Rivero	full-scale granular sludge reactor, CM Castro Barros, MRJ Daelman, KE Mampaey, MCM Van Loosdrecht, EIP Volcke			
FRANCE, IWA-12666	BELGIUM, IWA-12603			
	sEvaluating the environmental impacts of sewer systems in the			
for Heavy Metal Ions by Theoretically Designing, H Satoh, A	Life Cycle Assessment of the entire urban wastewater system, O			
Hafuka, R Kandoh, H Yoshikawa, K Ohya, K Yamada, M	Gutierrez, P Roux, E Risch, C Boutin, L Corominas			
Takahashi, S Okabe	SPAIN, IWA-12677			
JAPAN, IWA-12657 Monitoring of membrane bioreactors for wastewater	Reduction of Greenhouse Gas Emissions in Wastewater			
treatment using 2D fluorescence spectroscopy, C Galinha, G	Treatment Plants by Using Carbon Emission Pinch Analysis, SH			
Carvalho, CAM Portugal, MAM Reis, JG Crespo	Pyo, SC Lee, MJ Kim, JT Kim, CK Yoo			
PORTUGAL, IWA-12698	REPUBLIC OF KOREA, IWA-12587			
	Applications of Life Cycle Assessment for evaluation of several			
municipal sludge by coupling sequential extractions with	WWTPs operation W Piao, Y Kim, H Kim, M Kim, W Shin, C Kim			
fluorescence spectroscopy: towards ADM1 implementation, J	REPUBLIC OF KOREA, IWA-12745			
Jimenez, E Gonidec, JP Steyer, E Latrille, F Vedrenne, JA Cacho				
FRANCE, IWA-12630 On-line Digital Holographic Microscope Being Used in Water	Evaluating the environmental performance of wastewater			
Safety Plans, A Torokne, C Ilcsik, S Tokes	treatment plants control strategies, HR Concepcion Gomez, D			
HUNGARY, IWA-12644	Vrecko, M Meneses, R Vilanova			
	SPAIN, IWA-12584			
17h50: Ei	nd of the day			
Thursd	ay 19 th of September 2013			
09n00-09n45	e with Rule Based Control of Copenhagen's Sewer System,			
	p, chairman: Eveline Volcke, Belgium			
09h45-10h20 Coffee break & poster session				
10h20-12h00:	1 st parallel session			
10h20-12h00: T1.1- State and unknown input estimation for	L st parallel session T2.1- Lessons from full scale practical applications of ICA in			
10h20-12h00: T1.1- State and unknown input estimation for bioprocesses and WWTPs room bleue, chairman: Zhiguo Yuan, Australia State and Unknown Input Estimation for an Anaerobic	L st parallel session T2.1- Lessons from full scale practical applications of ICA in WWTPs			
10h20-12h00: T1.1- State and unknown input estimation for bioprocesses and WWTPs room bleue, chairman: Zhiguo Yuan, Australia State and Unknown Input Estimation for an Anaerobic Digestion System, M Sbarciog, J Moreno, E Guzman, A Vande	L st parallel session T2.1- Lessons from full scale practical applications of ICA in WWTPs room beige, chairman: Doug Lumley, Sweden Improvement of aeration control in Ljubljana WWTP, D Vrecko, U Zupancic, R Babic			
T1.1- State and unknown input estimation for bioprocesses and WWTPs room bleue, chairman: Zhiguo Yuan, Australia State and Unknown Input Estimation for an Anaerobic Digestion System, M Sbarciog, J Moreno, E Guzman, A Vande Wouwer	L st parallel session T2.1- Lessons from full scale practical applications of ICA in WWTPs room beige, chairman: Doug Lumley, Sweden Improvement of aeration control in Ljubljana WWTP, D Vrecko, U			
T1.1- State and unknown input estimation for bioprocesses and WWTPs room bleue, chairman: Zhiguo Yuan, Australia State and Unknown Input Estimation for an Anaerobic Digestion System, M Sbarciog, J Moreno, E Guzman, A Vande Wouwer BELGIUM, IWA-12614	L st parallel session T2.1- Lessons from full scale practical applications of ICA in WWTPs room beige, chairman: Doug Lumley, Sweden Improvement of aeration control in Ljubljana WWTP, D Vrecko, U Zupancic, R Babic SLOVENIA, IWA-12662			
T1.1- State and unknown input estimation for bioprocesses and WWTPs room bleue, chairman: Zhiguo Yuan, Australia State and Unknown Input Estimation for an Anaerobic Digestion System, M Sbarciog, J Moreno, E Guzman, A Vande Wouwer BELGIUM, IWA-12614 Fast estimation of the bioreaction rate in an aerobic SBR	L st parallel session T2.1- Lessons from full scale practical applications of ICA in WWTPs room beige, chairman: Doug Lumley, Sweden Improvement of aeration control in Ljubljana WWTP, D Vrecko, U Zupancic, R Babic SLOVENIA, IWA-12662 Processes automation for the best practices in the wastewater			
T1.1- State and unknown input estimation for bioprocesses and WWTPs room bleue, chairman: Zhiguo Yuan, Australia State and Unknown Input Estimation for an Anaerobic Digestion System, M Sbarciog, J Moreno, E Guzman, A Vande Wouwer BELGIUM, IWA-12614 Fast estimation of the bioreaction rate in an aerobic SBR treating toxic wastewater using a discontinuous observer, J	L st parallel session T2.1- Lessons from full scale practical applications of ICA in WWTPs room beige, chairman: Doug Lumley, Sweden Improvement of aeration control in Ljubljana WWTP, D Vrecko, U Zupancic, R Babic SLOVENIA, IWA-12662 Processes automation for the best practices in the wastewater treatment plants of the Autonomous Province of Trento, M			
T1.1- State and unknown input estimation for bioprocesses and WWTPs room bleue, chairman: Zhiguo Yuan, Australia State and Unknown Input Estimation for an Anaerobic Digestion System, M Sbarciog, J Moreno, E Guzman, A Vande Wouwer BELGIUM, IWA-12614 Fast estimation of the bioreaction rate in an aerobic SBR	L st parallel session T2.1- Lessons from full scale practical applications of ICA in WWTPs room beige, chairman: Doug Lumley, Sweden Improvement of aeration control in Ljubljana WWTP, D Vrecko, U Zupancic, R Babic SLOVENIA, IWA-12662 Processes automation for the best practices in the wastewater			
T1.1- State and unknown input estimation for bioprocesses and WWTPs room bleue, chairman: Zhiguo Yuan, Australia State and Unknown Input Estimation for an Anaerobic Digestion System, M Sbarciog, J Moreno, E Guzman, A Vande Wouwer BELGIUM, IWA-12614 Fast estimation of the bioreaction rate in an aerobic SBR treating toxic wastewater using a discontinuous observer, J Oviedo, I Torres Zúñiga, A Vargas	T2.1- Lessons from full scale practical applications of ICA in WWTPs room beige, chairman: Doug Lumley, Sweden Improvement of aeration control in Ljubljana WWTP, D Vrecko, U Zupancic, R Babic SLOVENIA, IWA-12662 Processes automation for the best practices in the wastewater treatment plants of the Autonomous Province of Trento, M Santinelli, AL Eusebi, G Gatti, P Battistoni ITALY, IWA-12610 Long-term evaluation of full-scale ammonium control in three			
T1.1- State and unknown input estimation for bioprocesses and WWTPs room bleue, chairman: Zhiguo Yuan, Australia State and Unknown Input Estimation for an Anaerobic Digestion System, M Sbarciog, J Moreno, E Guzman, A Vande Wouwer BELGIUM, IWA-12614 Fast estimation of the bioreaction rate in an aerobic SBR treating toxic wastewater using a discontinuous observer, J Oviedo, I Torres Zúñiga, A Vargas MEXICO, IWA-12660 On-line estimation of membrane fouling in MBRs, S Beltrán, J Odriozola, L Sancho, E Ayesa	T2.1- Lessons from full scale practical applications of ICA in WWTPs room beige, chairman: Doug Lumley, Sweden Improvement of aeration control in Ljubljana WWTP, D Vrecko, U Zupancic, R Babic SLOVENIA, IWA-12662 Processes automation for the best practices in the wastewater treatment plants of the Autonomous Province of Trento, M Santinelli, AL Eusebi, G Gatti, P Battistoni ITALY, IWA-12610 Long-term evaluation of full-scale ammonium control in three large WWTPs, L Åmand, C Laurell, K Stark-Fujii, A Thunberg, B			
T1.1- State and unknown input estimation for bioprocesses and WWTPs room bleue, chairman: Zhiguo Yuan, Australia State and Unknown Input Estimation for an Anaerobic Digestion System, M Sbarciog, J Moreno, E Guzman, A Vande Wouwer BELGIUM, IWA-12614 Fast estimation of the bioreaction rate in an aerobic SBR treating toxic wastewater using a discontinuous observer, J Oviedo, I Torres Zúñiga, A Vargas MEXICO, IWA-12660 On-line estimation of membrane fouling in MBRs, S Beltrán, J	T2.1- Lessons from full scale practical applications of ICA in WWTPs room beige, chairman: Doug Lumley, Sweden Improvement of aeration control in Ljubljana WWTP, D Vrecko, U Zupancic, R Babic SLOVENIA, IWA-12662 Processes automation for the best practices in the wastewater treatment plants of the Autonomous Province of Trento, M Santinelli, AL Eusebi, G Gatti, P Battistoni ITALY, IWA-12610 Long-term evaluation of full-scale ammonium control in three large WWTPs, L Åmand, C Laurell, K Stark-Fujii, A Thunberg, B Carlsson			
T1.1- State and unknown input estimation for bioprocesses and WWTPs room bleue, chairman: Zhiguo Yuan, Australia State and Unknown Input Estimation for an Anaerobic Digestion System, M Sbarciog, J Moreno, E Guzman, A Vande Wouwer BELGIUM, IWA-12614 Fast estimation of the bioreaction rate in an aerobic SBR treating toxic wastewater using a discontinuous observer, J Oviedo, I Torres Zúñiga, A Vargas MEXICO, IWA-12660 On-line estimation of membrane fouling in MBRs, S Beltrán, J Odriozola, L Sancho, E Ayesa SPAIN, IWA-12599	T2.1- Lessons from full scale practical applications of ICA in WWTPs room beige, chairman: Doug Lumley, Sweden Improvement of aeration control in Ljubljana WWTP, D Vrecko, U Zupancic, R Babic SLOVENIA, IWA-12662 Processes automation for the best practices in the wastewater treatment plants of the Autonomous Province of Trento, M Santinelli, AL Eusebi, G Gatti, P Battistoni ITALY, IWA-12610 Long-term evaluation of full-scale ammonium control in three large WWTPs, L Åmand, C Laurell, K Stark-Fujii, A Thunberg, B Carlsson SWEDEN, IWA-12608			
T1.1- State and unknown input estimation for bioprocesses and WWTPs room bleue, chairman: Zhiguo Yuan, Australia State and Unknown Input Estimation for an Anaerobic Digestion System, M Sbarciog, J Moreno, E Guzman, A Vande Wouwer BELGIUM, IWA-12614 Fast estimation of the bioreaction rate in an aerobic SBR treating toxic wastewater using a discontinuous observer, J Oviedo, I Torres Zúñiga, A Vargas MEXICO, IWA-12660 On-line estimation of membrane fouling in MBRs, S Beltrán, J Odriozola, L Sancho, E Ayesa SPAIN, IWA-12599	T2.1- Lessons from full scale practical applications of ICA in WWTPs room beige, chairman: Doug Lumley, Sweden Improvement of aeration control in Ljubljana WWTP, D Vrecko, U Zupancic, R Babic SLOVENIA, IWA-12662 Processes automation for the best practices in the wastewater treatment plants of the Autonomous Province of Trento, M Santinelli, AL Eusebi, G Gatti, P Battistoni ITALY, IWA-12610 Long-term evaluation of full-scale ammonium control in three large WWTPs, L Åmand, C Laurell, K Stark-Fujii, A Thunberg, B Carlsson SWEDEN, IWA-12608 Full-scale validation of a control system for energy saving in			
T1.1- State and unknown input estimation for bioprocesses and WWTPs room bleue, chairman: Zhiguo Yuan, Australia State and Unknown Input Estimation for an Anaerobic Digestion System, M Sbarciog, J Moreno, E Guzman, A Vande Wouwer BELGIUM, IWA-12614 Fast estimation of the bioreaction rate in an aerobic SBR treating toxic wastewater using a discontinuous observer, J Oviedo, I Torres Zúñiga, A Vargas MEXICO, IWA-12660 On-line estimation of membrane fouling in MBRs, S Beltrán, J Odriozola, L Sancho, E Ayesa SPAIN, IWA-12599	T2.1- Lessons from full scale practical applications of ICA in WWTPs room beige, chairman: Doug Lumley, Sweden Improvement of aeration control in Ljubljana WWTP, D Vrecko, U Zupancic, R Babic SLOVENIA, IWA-12662 Processes automation for the best practices in the wastewater treatment plants of the Autonomous Province of Trento, M Santinelli, AL Eusebi, G Gatti, P Battistoni ITALY, IWA-12610 Long-term evaluation of full-scale ammonium control in three large WWTPs, L Åmand, C Laurell, K Stark-Fujii, A Thunberg, B Carlsson SWEDEN, IWA-12608			
T1.1- State and unknown input estimation for bioprocesses and WWTPs room bleue, chairman: Zhiguo Yuan, Australia State and Unknown Input Estimation for an Anaerobic Digestion System, M Sbarciog, J Moreno, E Guzman, A Vande Wouwer BELGIUM, IWA-12614 Fast estimation of the bioreaction rate in an aerobic SBR treating toxic wastewater using a discontinuous observer, J Oviedo, I Torres Zúñiga, A Vargas MEXICO, IWA-12660 On-line estimation of membrane fouling in MBRs, S Beltrán, J Odriozola, L Sancho, E Ayesa SPAIN, IWA-12599 Application of nearest neighbor method to predict influent wastewater flow and compositions, M Kim, H Kim, S Lee, Y Kim	T2.1- Lessons from full scale practical applications of ICA in WWTPs room beige, chairman: Doug Lumley, Sweden Improvement of aeration control in Ljubljana WWTP, D Vrecko, U Zupancic, R Babic SLOVENIA, IWA-12662 Processes automation for the best practices in the wastewater treatment plants of the Autonomous Province of Trento, M Santinelli, AL Eusebi, G Gatti, P Battistoni ITALY, IWA-12610 Long-term evaluation of full-scale ammonium control in three large WWTPs, L Åmand, C Laurell, K Stark-Fujii, A Thunberg, B Carlsson SWEDEN, IWA-12608 Full-scale validation of a control system for energy saving in membrane bioreactors, H Monclus, S Casas, S Rovira, J Canals, J			
T1.1- State and unknown input estimation for bioprocesses and WWTPs room bleue, chairman: Zhiguo Yuan, Australia State and Unknown Input Estimation for an Anaerobic Digestion System, M Sbarciog, J Moreno, E Guzman, A Vande Wouwer BELGIUM, IWA-12614 Fast estimation of the bioreaction rate in an aerobic SBR treating toxic wastewater using a discontinuous observer, J Oviedo, I Torres Zúñiga, A Vargas MEXICO, IWA-12660 On-line estimation of membrane fouling in MBRs, S Beltrán, J Odriozola, L Sancho, E Ayesa SPAIN, IWA-12599 Application of nearest neighbor method to predict influent wastewater flow and compositions, M Kim, H Kim, S Lee, Y Kim W Piao, C Kim REPUBLIC OF KOREA, IWA-12749 Calibration and validation of a phenomenological dynamic	T2.1- Lessons from full scale practical applications of ICA in WWTPs room beige, chairman: Doug Lumley, Sweden Improvement of aeration control in Ljubljana WWTP, D Vrecko, U Zupancic, R Babic SLOVENIA, IWA-12662 Processes automation for the best practices in the wastewater treatment plants of the Autonomous Province of Trento, M Santinelli, AL Eusebi, G Gatti, P Battistoni ITALY, IWA-12610 Long-term evaluation of full-scale ammonium control in three large WWTPs, L Åmand, C Laurell, K Stark-Fujii, A Thunberg, B Carlsson SWEDEN, IWA-12608 Full-scale validation of a control system for energy saving in membrane bioreactors, H Monclus, S Casas, S Rovira, J Canals, J Comas, I Rodriguez-Roda SPAIN, IWA-12642 Energy saving on waste water treatment plants through			
T1.1- State and unknown input estimation for bioprocesses and WWTPs room bleue, chairman: Zhiguo Yuan, Australia State and Unknown Input Estimation for an Anaerobic Digestion System, M Sbarciog, J Moreno, E Guzman, A Vande Wouwer BELGIUM, IWA-12614 Fast estimation of the bioreaction rate in an aerobic SBR treating toxic wastewater using a discontinuous observer, J Oviedo, I Torres Zúñiga, A Vargas MEXICO, IWA-12660 On-line estimation of membrane fouling in MBRs, S Beltrán, J Odriozola, L Sancho, E Ayesa SPAIN, IWA-12599 Application of nearest neighbor method to predict influent wastewater flow and compositions, M Kim, H Kim, S Lee, Y Kim W Piao, C Kim REPUBLIC OF KOREA, IWA-12749 Calibration and validation of a phenomenological dynamic influent pollutant disturbance scenario generator using full-	T2.1- Lessons from full scale practical applications of ICA in WWTPs room beige, chairman: Doug Lumley, Sweden Improvement of aeration control in Ljubljana WWTP, D Vrecko, U Zupancic, R Babic SLOVENIA, IWA-12662 Processes automation for the best practices in the wastewater treatment plants of the Autonomous Province of Trento, M Santinelli, AL Eusebi, G Gatti, P Battistoni ITALY, IWA-12610 Long-term evaluation of full-scale ammonium control in three large WWTPs, L Åmand, C Laurell, K Stark-Fujii, A Thunberg, B Carlsson SWEDEN, IWA-12608 Full-scale validation of a control system for energy saving in membrane bioreactors, H Monclus, S Casas, S Rovira, J Canals, J Comas, I Rodriguez-Roda SPAIN, IWA-12642 Energy saving on waste water treatment plants through improved online control: case study wwtp Antwerp-South, K De			
T1.1- State and unknown input estimation for bioprocesses and WWTPs room bleue, chairman: Zhiguo Yuan, Australia State and Unknown Input Estimation for an Anaerobic Digestion System, M Sbarciog, J Moreno, E Guzman, A Vande Wouwer BELGIUM, IWA-12614 Fast estimation of the bioreaction rate in an aerobic SBR treating toxic wastewater using a discontinuous observer, J Oviedo, I Torres Zúñiga, A Vargas MEXICO, IWA-12660 On-line estimation of membrane fouling in MBRs, S Beltrán, J Odriozola, L Sancho, E Ayesa SPAIN, IWA-12599 Application of nearest neighbor method to predict influent wastewater flow and compositions, M Kim, H Kim, S Lee, Y Kim W Piao, C Kim REPUBLIC OF KOREA, IWA-12749 Calibration and validation of a phenomenological dynamic influent pollutant disturbance scenario generator using full- scale data, X Flores-Alsina, R Saagi, E Lindblom, C Thirsing, D	T2.1- Lessons from full scale practical applications of ICA in WWTPs room beige, chairman: Doug Lumley, Sweden Improvement of aeration control in Ljubljana WWTP, D Vrecko, U Zupancic, R Babic SLOVENIA, IWA-12662 Processes automation for the best practices in the wastewater treatment plants of the Autonomous Province of Trento, M Santinelli, AL Eusebi, G Gatti, P Battistoni ITALY, IWA-12610 Long-term evaluation of full-scale ammonium control in three large WWTPs, L Åmand, C Laurell, K Stark-Fujii, A Thunberg, B Carlsson SWEDEN, IWA-12608 Full-scale validation of a control system for energy saving in membrane bioreactors, H Monclus, S Casas, S Rovira, J Canals, J Comas, I Rodriguez-Roda SPAIN, IWA-12642 Energy saving on waste water treatment plants through improved online control: case study wwtp Antwerp-South, K De Gussem, A Fenu, T Wambecq, M Weemaes			
T1.1- State and unknown input estimation for bioprocesses and WWTPs room bleue, chairman: Zhiguo Yuan, Australia State and Unknown Input Estimation for an Anaerobic Digestion System, M Sbarciog, J Moreno, E Guzman, A Vande Wouwer BELGIUM, IWA-12614 Fast estimation of the bioreaction rate in an aerobic SBR treating toxic wastewater using a discontinuous observer, J Oviedo, I Torres Zúñiga, A Vargas MEXICO, IWA-12660 On-line estimation of membrane fouling in MBRs, S Beltrán, J Odriozola, L Sancho, E Ayesa SPAIN, IWA-12599 Application of nearest neighbor method to predict influent wastewater flow and compositions, M Kim, H Kim, S Lee, Y Kim W Piao, C Kim REPUBLIC OF KOREA, IWA-12749 Calibration and validation of a phenomenological dynamic influent pollutant disturbance scenario generator using full- scale data, X Flores-Alsina, R Saagi, E Lindblom, C Thirsing, D Thornberg, KV Gernaey, U Jeppsson	T2.1- Lessons from full scale practical applications of ICA in WWTPs room beige, chairman: Doug Lumley, Sweden Improvement of aeration control in Ljubljana WWTP, D Vrecko, U Zupancic, R Babic SLOVENIA, IWA-12662 Processes automation for the best practices in the wastewater treatment plants of the Autonomous Province of Trento, M Santinelli, AL Eusebi, G Gatti, P Battistoni ITALY, IWA-12610 Long-term evaluation of full-scale ammonium control in three large WWTPs, L Åmand, C Laurell, K Stark-Fujii, A Thunberg, B Carlsson SWEDEN, IWA-12608 Full-scale validation of a control system for energy saving in membrane bioreactors, H Monclus, S Casas, S Rovira, J Canals, J Comas, I Rodriguez-Roda SPAIN, IWA-12642 Energy saving on waste water treatment plants through improved online control: case study wwtp Antwerp-South, K De			
T1.1- State and unknown input estimation for bioprocesses and WWTPs room bleue, chairman: Zhiguo Yuan, Australia State and Unknown Input Estimation for an Anaerobic Digestion System, M Sbarciog, J Moreno, E Guzman, A Vande Wouwer BELGIUM, IWA-12614 Fast estimation of the bioreaction rate in an aerobic SBR treating toxic wastewater using a discontinuous observer, J Oviedo, I Torres Zúñiga, A Vargas MEXICO, IWA-12660 On-line estimation of membrane fouling in MBRs, S Beltrán, J Odriozola, L Sancho, E Ayesa SPAIN, IWA-12599 Application of nearest neighbor method to predict influent wastewater flow and compositions, M Kim, H Kim, S Lee, Y Kim W Piao, C Kim REPUBLIC OF KOREA, IWA-12749 Calibration and validation of a phenomenological dynamic influent pollutant disturbance scenario generator using full- scale data, X Flores-Alsina, R Saagi, E Lindblom, C Thirsing, D Thornberg, KV Gernaey, U Jeppsson SWEDEN, IWA-12631	T2.1- Lessons from full scale practical applications of ICA in WWTPs room beige, chairman: Doug Lumley, Sweden Improvement of aeration control in Ljubljana WWTP, D Vrecko, U Zupancic, R Babic SLOVENIA, IWA-12662 Processes automation for the best practices in the wastewater treatment plants of the Autonomous Province of Trento, M Santinelli, AL Eusebi, G Gatti, P Battistoni ITALY, IWA-12610 Long-term evaluation of full-scale ammonium control in three large WWTPs, L Åmand, C Laurell, K Stark-Fujii, A Thunberg, B Carlsson SWEDEN, IWA-12608 Full-scale validation of a control system for energy saving in membrane bioreactors, H Monclus, S Casas, S Rovira, J Canals, J Comas, I Rodriguez-Roda SPAIN, IWA-12642 Energy saving on waste water treatment plants through improved online control: case study wwtp Antwerp-South, K De Gussem, A Fenu, T Wambecq, M Weemaes BELGIUM, IWA-12650			
T1.1- State and unknown input estimation for bioprocesses and WWTPs room bleue, chairman: Zhiguo Yuan, Australia State and Unknown Input Estimation for an Anaerobic Digestion System, M Sbarciog, J Moreno, E Guzman, A Vande Wouwer BELGIUM, IWA-12614 Fast estimation of the bioreaction rate in an aerobic SBR treating toxic wastewater using a discontinuous observer, J Oviedo, I Torres Zúñiga, A Vargas MEXICO, IWA-12660 On-line estimation of membrane fouling in MBRs, S Beltrán, J Odriozola, L Sancho, E Ayesa SPAIN, IWA-12599 Application of nearest neighbor method to predict influent wastewater flow and compositions, M Kim, H Kim, S Lee, Y Kim W Piao, C Kim REPUBLIC OF KOREA, IWA-12749 Calibration and validation of a phenomenological dynamic influent pollutant disturbance scenario generator using full- scale data, X Flores-Alsina, R Saagi, E Lindblom, C Thirsing, D Thornberg, KV Gernaey, U Jeppsson	T2.1- Lessons from full scale practical applications of ICA in WWTPs room beige, chairman: Doug Lumley, Sweden Improvement of aeration control in Ljubljana WWTP, D Vrecko, U Zupancic, R Babic SLOVENIA, IWA-12662 Processes automation for the best practices in the wastewater treatment plants of the Autonomous Province of Trento, M Santinelli, AL Eusebi, G Gatti, P Battistoni ITALY, IWA-12610 Long-term evaluation of full-scale ammonium control in three large WWTPs, L Åmand, C Laurell, K Stark-Fujii, A Thunberg, B Carlsson SWEDEN, IWA-12608 Full-scale validation of a control system for energy saving in membrane bioreactors, H Monclus, S Casas, S Rovira, J Canals, J Comas, I Rodriguez-Roda SPAIN, IWA-12642 Energy saving on waste water treatment plants through improved online control: case study wwtp Antwerp-South, K De Gussem, A Fenu, T Wambecq, M Weemaes			

14h00-15h40: 2	2 nd parallel session
T1.2- Integrating data processing and Decision Support Systems for the optimization of WWTPs room bleue, chairman: Ulf Jeppsson, Sweden	room beige, chairman: Eduardo Ayesa, Spain
Energy and process data processing and visualisation for waste water treatment plant optimization, C Thürlimann, D Dürrenmatt, K Villez SWITZERLAND, IWA-12647	e Control Structure Design of a Full-Scale WWTP under the Revamping Process, V Cunha Machado, J Lafuente, JA Baeza SPAIN, IWA-12611
Advanced process monitoring for wastewater processes, M O'Brien, S Mazier, M McEwan, K Black, M Ellner UNITED KINGDOM, IWA-12679	Lessons learnt from the application of advanced controllers in the Mekolalde WWTP: good simulation practices in control, I Irizar, S Beltran, G Urchegui, G Izko, O Fernandez, M Maiza SPAIN, IWA-12569
Separating real system dynamics from measurement failures and artefacts by means of automated data quality assessment methods, S Winkler, L Kornfeind, R Fuiko, A Winkelbauer AUSTRIA, IWA-12701	Exchange of ideas and improvement of online control on joint platform for the three large Copenhagen WWTPs, T Berenhard Önnerth, H Rønnow Thomsen, C Thirsing, T Guildal DENMARK, IWA-12668
Towards a decision support system to assess environmental and socio-economic impacts of Urban Wastewater Systems (UWS), A Hadjimichael, L Corominas, M Poch, J Comas SPAIN, IWA-12686	Integrating an on-line catchment simulator into wastewater treatment plant operation - 20 years later, C Hernebring, D Lumley, LG Gustafsson, H Strandner SWEDEN, IWA-12689
Shall we use hardware sensor measurements or soft-sensor estimates? Case study in a full-scale WWTP, H Haimi, M Mulas, F Corona, L Sundell, M Heinonen, R Vahala FINLAND, IWA-12663	Model-based evaluation of cost saving control strategies using real market variable energy tariffs, I Aymerich, N Pellicer, M Poch, LI Corominas SPAIN, IWA-12618
	ee break & poster session
T1.3- Decision Support System for improving water quality and risk management room bleue, chairman: Quim Comas, Spain	T2.3- Young Water Professional session room beige, chairman: Vicky Ruano, Spain
Model-based detection of organic matter depletion in SBRs, MN Cruz Bournazou, S Junne, G Wozny, P Neubauer, G Lyberatos GERMANY, IWA-12593	The role of ICA in wastewater treatment plants: the point of view of academia Peter Vanrolleghem, Alejandro Vargas, Gustaf Olsson.
	eThe role of ICA in wastewater treatment plants: the point of view a, of industry Leiv Rieger, Doug Lumley, Jing Liu.
Sensor fault detection and diagnosis based on bilinear mass balances in wastewater treatment systems, K Villez, PA Vanrolleghem, L Corominas SWITZERLAND, IWA-12744	The role of ICA in wastewater treatment plants: where is it now and where should it go? What is missing from the point of view of academia and industry? Debate between young water professionals and seniors researchers.
Data derived sensor fault detection in the activated sludge process of the Viikinmäki wastewater treatment plant, H Haimi, M Mulas, F Corona, S Marsili-Libelli, P Lindell, M Heinonen, R Vahala FINLAND, IWA-12664	
Detecting membrane fouling occurrences in a full-scale membrane bioreactor with principal component analysis, L De Temmerman, W Naessens, T Maere, S Marsili-Libelli, K Villez, H Temmink, I Nopens BELGIUM, IWA-12694	
	nd of the day
	·

	Friday 20th of	September 2013
00100 001 15		om the WWTP benchmarking exercise, Krist V. Gernaey,
09h00-09h45		n: Alejandro Vargas, Mexico
09h45-10h20		ee break & poster session
	10h20-12h00: 1	1 st parallel session
F1.1- I	Modeling and control of MBRs	F2.1- Fault Detection and Isolation in WWTP
	, chairman: Ingmar Nopens, Belgium	room beige, chairman: Stefano Marsili-Libelli, Italy
•	of MBRs: effects of aeration, M Dalmau, M	Monitoring Network for Surveillance of WWTP Effluents, J Cros
	n, J Odriozola, L Sancho, E Ayesa, I Rodríguez-	Herrero, A Gonzalez Catena, M Farré Torras, M Batlle i Ribas
Roda, J Comas		SPAIN, IWA-12575
SPAIN, IWA-12667	merged Anaerobic MBRs (SAnMBRs) for	Low-cost method for monitoring sewer overflows in an entire
		network: from manual to automatic data analysis., A Montserrat
	osado, A Seco, J Ferrer	Royuela, A Benzal, O Gutierrez, L Corominas
SPAIN, IWA-12636		SPAIN, IWA-12656
		Integrated System for Evaluating and Operating Water
	trán, L Sancho, M Dalmau, J Comas, I	Distribution Network, SH Kim, HS Kim, SM Park, DY Choi
Rodríguez-Roda, E	Ayesa	REPUBLIC OF KOREA, IWA-12719
SPAIN, IWA-12617	for the state of t	
	f Membrane Filtration in Membrane , R Van den Broeck, AS Pattyn, J Van Impe	Weather radars used in online control of wastewater systems, T Sander Poulsen, T Berenhard Önnerth, MR Rasmussen, J Samsø
BELGIUM, IWA-126		Pedersen, C Thirsing
DELGIOW, IVVA 120	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	DENMARK, IWA-12588
Modeling of subme	erged membrane bioreactors with a view to	Mode of Risk Management and Precaution for Storm Water in a
_	tel, A Vande Wouwer, A Rapaport, J Harmand	
BELGIUM, IWA-126	575	CHINA, IWA-12643
12h00-13h00		Lunch
	14h00-15h40: 2	nd parallel session
E1 2- Control of	sewer systems and anaerobic digestors	F2.2- Expanding existing models for better modeling
	chairman: Altunay Perendeci, Turkey	practices and prediction of N ₂ O production
Toom bleue,	chairman. Alturay Perendeci, Turkey	room beige, chairman: Sylvie Gillot, France
	f water from the cloud, throughout the	Toward modeling of biogas plants in engineering practice, \ensuremath{M}
-	the receiving water - Model predictive	Ogurek, I Seick, O Kujawski, J Alex
	ed sewer-wastewater treatment systems, P	GERMANY, IWA-12693
Steen Mikkelsen DENMARK, IWA-12	602	
		Reducing Complexity when Calibrating a Model describing the
	1 Mauricio-Iglesias, AL Mollerup, G Sin	Reactions of Ozone with NOM: Experimental and Numerical
DENMARK, IWA-12		Approaches, P Mandel, P Roche, HH Pham, D Wolbert, Daniel Jung
		FRANCE, IWA-12697
-	al dosing for sulfide mitigation in sewer	Expanding activated sludge models with additional processes: A
	ybrid automata control strategy, Y Liu, R	case study based on nitrous oxide production by autotrophic
Ganigué, Z Yuan		ammonia-oxidizing bacteria, L Snip, R Boiocchi, X Flores-Alsina, U
AUSTRALIA, IWA-1	2696	Jeppsson, K Gernaey
Automated contro	I system for anaerobic treatment, JF van	DENMARK, IWA-12706 Adaptation and identification of models for nitrous oxide (N ₂ O)
Geest, K Cuadros P	· ·	production by autotrophic nitrite reduction, M Pocquet, I
NETHERLANDS, IWA-12682		Queinnec, M Sperandio
-,		FRANCE, IWA-12687
A switching contro	l strategy based on alkalinity to optimize	Evaluation of greenhouse gas emissions from membrane
	the start-up of an anaerobic digester, CE	bioreactors: development of a new mathematical model, G
	E Latrille, J Harmand, V Alcaraz González, V	Mannina, A Cosenza, G Viviani
González Álvarez, J	-	ITALY, IWA-12632
MEXICO, IWA-1274	1 3	Coffee break
15h40-16h10	Canalysia - Tul	Coffee break
	Conclusion Tal	ks (16h10-17h00) (plenary session)
16h10-17h00	A	at of the next conference leasting
16h10-17h00		nt of the next conference location
16h10-17h00 19h00-23h30	17h00: En	nt of the next conference location nd of the day ner (at Abbaye de Fontfroide)