

Book of abstracts, 11th IWA Conference on Instrumentation Control and Automation - ICA2013

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be Narbonne, . Inra Transfert Technologies, . International Water Association. Book of abstracts, 11th IWA Conference on Instrumentation Control and Automation - ICA
2013. ICA2013 - 11th IWA Conference on Instrumentation Control and Automation, Sep
 2013, Narbonne, France. , 2013. hal-02810148

HAL Id: hal-02810148 https://hal.inrae.fr/hal-02810148

Submitted on 6 Jun 2020

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	Tuocde	ay 17 th of September 2013
18h00-20h00		velcome cocktail (at Salle des Synodes)
181100-201100		day 18 th of September 2013
08h00-08h30		ation (at Narbonne theatre)
08h30-09h00		ction talks (plenary session)
081130-031100		trol and Automation in wastewater - what happened from
09h00-09h45		Gustaf Olsson, chairman: Peter Vanrolleghem, Canada
09h45-10h20		ee break & poster session
031143 101120		1 st parallel session
W1.1- New sei	nsors for monitoring WWTPs, rivers and	
***************************************	sewer systems	performances
room b	leue, 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		Langlois, PA Vanrolleghem
FRANCE, IWA-125		CANADA, IWA-12700
	EIS sensor to monitor corrosion in cast iron	Effect of Sensor Location on Controller Performance in a
	In the Barcelona water distribution network, M Velasco Droguet, C Lagunas Calpe, C	, <u>Wastewater Treatment Plant,</u> U Rehman, M Vesvikar, T Maere, L Guo, P Vanrolleghem, I Nopens
Müller Jevenois	ivi velasco Dioguet, C Laguillas Calpe, C	BELGIUM, IWA-12707
SPAIN, IWA-12676		belolow, IWA 12707
	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-126		NORWAY, IWA-12674
	ivity as a state indicator for the start-up	A novel control strategy for an efficient EBPR removal in WWTP:
	<u>ic fixed-film reactors</u> , Á. Robles, E Latrille, J	in-silico optimisation and experimental validation, J Guerrero, A
Ribes, JP Steyer SPAIN, IWA-12748		Guisasola, JA Baeza SPAIN IWA-12653
polyphosphate in Leal, M Carvalheir PORTUGAL, IWA-1	quantify intracellular accumulation of EBPR systems, DP Mesquita, AL Amaral, C a, JR Cunha, A Oehmen, MAM Reis, EC Ferreira 2655	
12h00-13h00	101.01.11	Lunch
13h00-14h00	ICA Scientific Grou	up meeting (facultative but open to all)
144.0.1.1		2 nd parallel session
W1.2- Integra	ation of O ₂ and N ₂ O measurements for improved performances	
room bleue		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	chairman: Marie-Noëlle Pons, France trode-based online system for monitoring	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 microelec	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 N ₂ O emissions du Oehmen, M Pijuar PORTUGAL, IWA-1 Online monitoring	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	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 du Oehmen, M Pijuar PORTUGAL, IWA-1 Online monitoring gas phase measur EIP Volcke	chairman: Marie-Noëlle Pons, France trode-based online system for monitoring ring wastewater treatment, R Marques, A 2639 tof dissolved N2O 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
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A novel microelect N2O emissions du Oehmen, M Pijuar PORTUGAL, IWA-1 Online monitoring gas phase measur EIP Volcke BELGIUM, IWA-12 Energy Footprint Co	chairman: Marie-Noëlle Pons, France trode-based online system for monitoring ring wastewater treatment, R Marques, A 2639 c of dissolved N2O concentrations based on ements, KE Mampaey, MCM van Loosdrecht, 645 omparison 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
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15h40-16h10	Coffe	e break & poster session	
16h10-17h50: 3 rd parallel session			
W1.3- Spectral methods for	pollution characterization	W2.3- Environmental performance assessment and N ₂ O	
and bioproc	ess control	dynamics	
room bleue, chairman		room beige, chairman: Changwon Kim, Korea	
Lab-scale Anaerobic Digester Fol		<u>Dynamics of N₂O emission from partial nitritation-anammox in a</u>	
		<u>full-scale granular sludge reactor</u> , CM Castro Barros, MRJ	
R Treguer, M Poitrenaud, JA Cach	o Rivero	Daelman, KE Mampaey, MCM Van Loosdrecht, EIP Volcke	
FRANCE, IWA-12666	Electronic Market Conservation	BELGIUM, IWA-12603	
for Heavy Metal lons by Theoret		Evaluating the environmental impacts of sewer systems in the Life Cycle Assessment of the entire urban wastewater system, O	
Hafuka, R Kandoh, H Yoshikawa, I		Gutierrez, P Roux, E Risch, C Boutin, L Corominas	
Takahashi, S Okabe	Conya, K ramada, W	SPAIN, IWA-12677	
JAPAN, IWA-12657			
Monitoring of membrane biorea	ctors 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 Re	eis, 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 sec		WWTPs operation W Piao, Y Kim, H Kim, M Kim, W Shin, C Kim	
fluorescence spectroscopy: towa	•	REPUBLIC OF KOREA, IWA-12745	
Jimenez, E Gonidec, JP Steyer, E L	atrille, F Vedrenne, JA Cacho		
FRANCE, IWA-12630 On-line Digital Holographic Micro	accore Deing Head in Weter	Fire live time the consistent was a fire the constant of the c	
Safety Plans, A Torokne, C Ilcsik,	-	Evaluating the environmental performance of wastewater treatment plants control strategies, HR Concepcion Gomez, D	
HUNGARY, IWA-12644	3 TOKES	Vrecko, M Meneses, R Vilanova	
11011071117,11071 12044		SPAIN, IWA-12584	
	17h50: Fr	d of the day	
		ay 19 th of September 2013	
Planary ses		with Rule Based Control of Copenhagen's Sewer System,	
09h00-09h45		g, chairman: Eveline Volcke, Belgium	
09h45-10h20			
09h45-10h20 Coffee break & poster session 10h20-12h00: 1 st parallel session			
	10h20_12h00+1		
T1 1- State and unknow		st parallel session	
T1.1- State and unknow	n input estimation for	st parallel session T2.1- Lessons from full scale practical applications of ICA in	
bioprocesses	n input estimation for and WWTPs	st parallel session T2.1- Lessons from full scale practical applications of ICA in WWTPs	
bioprocesses room bleue, chairman:	n input estimation for and WWTPs Zhiguo Yuan, Australia	T2.1- Lessons from full scale practical applications of ICA in WWTPs room beige, chairman: Doug Lumley, Sweden	
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14h00-15h40: 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	<u>Revamping Process</u> , 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		
Profiles by means of Case-Based Reasoning, X Berjaga, M Coma J Meléndez, S Puig, J Colprim, J Colomer SPAIN, IWA-12583			
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	_		
17h50: E	nd of the day		

Friday 20th of	September 2013			
Plenary session: Lessons learned fro	om the WWTP benchmarking exercise, Krist V. Gernaey,			
09h00-09h45 chairma	n: Alejandro Vargas, Mexico			
	ee break & poster session			
10h20-12h00: 1 st parallel session				
F1.1- Modeling and control of MBRs	F2.1- Fault Detection and Isolation in WWTP			
room bleue, chairman: Ingmar Nopens, Belgium	room beige, chairman: Stefano Marsili-Libelli, Italy			
Integrated control of MBRs: effects of aeration, M Dalmau, M	Monitoring Network for Surveillance of WWTP Effluents, J Cros			
Castellà, S Gabarrón, J Odriozola, L Sancho, E Ayesa, I Rodríguez-				
Roda, J Comas	SPAIN, IWA-12575			
SPAIN, IWA-12667				
ICA applied to Submerged Anaerobic MBRs (SAnMBRs) for	Low-cost method for monitoring sewer overflows in an entire			
domestic wastewater treatment, A Robles, F Durán, M Victoria Ruano, J Ribes, A Rosado, A Seco, J Ferrer	network: from manual to automatic data analysis, A Montserrat- Royuela, A Benzal, O Gutierrez, L Corominas			
SPAIN, IWA-12636	SPAIN, IWA-12656			
	Integrated System for Evaluating and Operating Water			
JV Odriozola, S Beltrán, 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				
Dynamic Control of Membrane Filtration in Membrane	Weather radars used in online control of wastewater systems, T			
Bioreactors (MBR), R Van den Broeck, AS Pattyn, J Van Impe	Sander Poulsen, T Berenhard Önnerth, MR Rasmussen, J Samsø			
BELGIUM, IWA-12688	Pedersen, C Thirsing			
No. of the conference of the conference between the conference of	DENMARK, IWA-12588			
Modeling of submerged membrane bioreactors with a view to	Mode of Risk Management and Precaution for Storm Water in a			
control, GA Pimentel, A Vande Wouwer, A Rapaport, J Harmand BELGIUM, IWA-12675	CHINA, IWA-12643			
12h00-13h00	Lunch			
	2 nd parallel session			
	F2.2- Expanding existing models for better modeling			
F1.2- Control of sewer systems and anaerobic digestors	practices and prediction of N ₂ O production			
room bleue, chairman: Altunay Perendeci, Turkey	room beige, chairman: Sylvie Gillot, France			
Following a drop of water from the cloud, throughout the	Toward modeling of biogas plants in engineering practice, M			
sewer system, into the receiving water - Model predictive	Ogurek, I Seick, O Kujawski, J Alex			
control of integrated sewer-wastewater treatment systems, P	GERMANY, IWA-12693			
Steen Mikkelsen				
DENMARK, IWA-12692				
	Reducing Complexity when Calibrating a Model describing the			
Montero-Castro, M Mauricio-Iglesias, AL Mollerup, G Sin	Reactions of Ozone with NOM: Experimental and Numerical			
DENMARK, IWA-12633	Approaches, P Mandel, P Roche, HH Pham, D Wolbert, Daniel Jung			
Controlling chemical dosing for sulfide mitigation in sewer	FRANCE, IWA-12697			
networks using a hybrid automata control strategy, Y Liu, R	Expanding activated sludge models with additional processes: A 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-12696	Jeppsson, K Gernaey			
	DENMARK, IWA-12706			
Automated control system for anaerobic treatment, JF van	Adaptation and identification of models for nitrous oxide (N ₂ O)			
Geest, K Cuadros Perez, B Heffernan	production by autotrophic nitrite reduction, M Pocquet, I			
NETHERLANDS, IWA-12682	Queinnec, M Sperandio			
	FRANCE, IWA-12687			
A switching control strategy based on alkalinity to optimize	Evaluation of greenhouse gas emissions from membrane			
biogas outflow in the start-up of an anaerobic digester, CE	bioreactors: development of a new mathematical model, G			
Robles Rodriguez, E Latrille, J Harmand, V Alcaraz González, V	Mannina, A Cosenza, G Viviani			
González Álvarez, JP Steyer	ITALY, IWA-12632			
MEXICO, IWA-12743 15h40-16h10	Coffee break			
	ks (16h10-17h00) (plenary session)			
16n10-1/n00				
Announcement of the next conference location				
	nd of the day			
19h00-23h30 Gala dinn	ner (at Abbaye de Fontfroide)			