

WEFTEC.10

83rd Annual Water Environment Federation Technical Exhibition and Conference

The Water Quality Event
Paper Presentations
 October 2 – 6, 2010
 New Orleans Morial Convention Center, New Orleans, LA

WEFTEC.10, Paper Presentations

Topic	Title	Authors EnviroSim people in bold	Date	Time	Session
Greenhouse Gas Emission Reduction and Carbon Footprinting: Part II	<i>Scope 1 GHG Emissions From Wastewater Treatment Plants Using Dynamic Modeling</i>	D. Houweling, P. Dold, M. Fairlamb	Oct 5	1:30	75
Nitrogen Removal Technologies	<i>Nutrient Removal MBR Systems: Factors in Design and Operation</i>	P. Dold, Z. Hu	Oct 6	11:30	40
What's New in Phosphorus and Nitrogen Removal	<i>Theoretical Limits to Biological Phosphorus Removal: Rethinking the Influent COD:N:P Ratio</i>	D. Houweling, P. Dold, J. Barnard	Oct 6	1:30	99
Biofilm Processes II	<i>Full Scale IFAS Investigation: Plant Data and Batch Testing To Assess Kinetics, Mass Transfer Effects And Population Dynamics</i>	R. Jones, C. Bott, B. Rutherford, R. Baumler, D. Waltrip	Oct 5	4:00	61
Advances in Process Control and Automation	<i>Improving Nutrient Removal while Reducing Carbon Footprint at Three SWISS WWTPs thanks to Advanced Control</i>	L. Rieger, I. Takács, H. Siegrist	Oct 4	1:30	34
Secondary Phosphorus Removal	<i>A New Approach to Biological Phosphorus Removal</i>	J. Barnard, D. Houweling, H. Analla, M. Steichen	Oct 4	10:30	2
Nitrogen Removal technologies	<i>Using Whey as a Supplemental Carbon Source under Real Time Control Conditions</i>	K. Brischke, K. Olds, D. Adams, J. Hardison, L. Rieger	Oct 5	9:30	40
Nitrogen Removal Technologies	<i>Simultaneous Nitrification-Denitrification to Meet Low Effluent Nitrogen Limits: Modeling, Performance, and Reliability</i>	J. Jimenez, D. Dursun, P. Dold, J. Bratby, J. Keller, D. Parker	Oct 5	11:30	40
Whole Plant Modeling	<i>Importance of Influent Heterotrophic Biomass Content for Modeling And Design</i>	Y. Mokhayeri, M. Awobamise, A. Al-Omari, B. Stinson, P. Dold, B. Wett, B. Bodniewicz, W. Bailey, S. Murthy	Oct 4	10:30	3
Ultra-Low Phosphorus Removal: Tertiary Processes	<i>Phosphorus Speciation and Removal in Wastewater Treatment</i>	L. Liu, S. Smith, D. Houweling, I. Takács, H.D. Stensel, S. Murthy, J.B. Neethling, A.Z. Gu	Oct 4	3:30	21
State of the Art in Wastewater Treatment Modeling: The Best of WWTmod 2010	<i>The Role of Modeling in Assessing Greenhouse Gas (GHG) Emissions</i>	A. Shaw, <i>et. al.</i> , including D. Houweling	Oct 4	3:30	22
Developments in Process Design	<i>Membrane Bioreactor Life-Cycle Cost Assessment Simulation: Digital Game-Based Learning-Results From the WEFTEC.09 Pre-Conference Workshop</i>	D. Kinnear, <i>et. al.</i> , including D. Houweling	Oct 5	3:30	62