PROGRAM

Tuesday July 2nd, 19 PM
Opening reception (courtyard of « Collège de Houdain », rue de Houdain 9)

Wednesday July 3rd

8:30: Opening (boulevard Dolez 31, salle Académique, 1st floor)

8:45 - Plenary lecture: Eco-Design of Cellars: Ecological Trends for the Treatment of Winery Wastewaters
J. Rochard

Chairman: Prof. R. Chamy

9:45 - Keynote lecture: Nature Based Solutions for Wastewater Valorization: WETWINE Project
A. Pascual, R. Pena, S. Gómez, C. Ávila, L. P. Herrero, J. A. Alvarez and M. Soto

10:15 – Coffee break

10:30 - Session 1 – Wastewater Characterization, Treatment, Reuse and Valorization (I)
Chairman: Prof. M. Torrijos
Co-chairman: Prof. G. Araujo Pimentel

10:30 - WineWATERFootprint Project: Water Footprint Assessment in the Portuguese Wine Chain

10:50 – On-farm Bioremediation Systems to avoid Point Pollution
V. Nelissen, K. Koopmans, D. Bylemans

11:10 - Treated Wastewater Reuse in Viticulture: Case Study of Irri-Alt’Eau Pilot Project

11:30 - Characterization and Valorization of Lebanese Wine Industry Wastes
S. Azzi-Achkouty, J. Al Assad, C. Karam, L. Joheir, B. Zeghondy, N. Estéphan, Y. El Rayess

11:50 - Overview about the Potential of Winery Wastewater Treatment by Anaerobic Digestion and Biogas Production in the South of Brazil
G. Araujo Pimentel, L. Marconatto, C. Lovato Melo, F. Dalla-Vecchia

12:10 – Winery Wastewater Conversion into Medium Chain Fatty Acids using Ruminal Microbiome under Anaerobic Conditions
S. Villegas-Rodriguez, M. Vital-Jácome, G. Buitrón
12:30 Lunch break

13:30 – Plenary lecture: How Paraburkholderia phytofirmans strain PsJN helps Vitis vinifera L. to face biotic and abiotic stresses
C. Clément

Chairman: Prof. M. Torrijos

14:30 – Keynote lecture: Yeast Deficient in the Tricarboxylic Acid Cycle for Non-Alcoholic Beer Production
D. Smogrovicova

15:00 – Coffee break

15:15 - Session 2 – Wastewater Characterization, Treatment, Reuse and Valorization (II)
Chairman: Prof. R. Chamy
Co-chairman: Dr. J. Carrillo-Reyes

15:15 - Trans-resveratrol Recovery from Wine Waste for Dietary Supplement Production
C. Kriel, R.W.M. Pott

15:35 – Recovery of Biohydrogen and Volatile Fatty Acids from Winery Effluents using Fixed Biomass Anaerobic Reactors
J. Cortez, J. Carrillo

15:55 – CaVin Project: Energy Valorization of Grape Pomace with Hydrodynamic Cavitation
N. Labartino, M. Soldano

16:15 – Evaluation of the Inhibition Effect in a UASB Reactor Fed from an Anaerobically Digested Hydrolyzed Sludge Return
D. Maureira, D. Jeison, R. Chamy

16:35 - Experiences with The Treatment of Wastewater from Small Breweries by SBR Process (poster introduction)
T. Gester, A. Thibault

16:40 – Coffee break

16:55 – Session 3 – Brewery and wine applications
Chairman: Prof. J. Van Impe
Co-chairman: Dr. L. Dewasme

16:55 – Wine Dealcoholisation Using Membrane Distillation
F. R. Mir, G. Schories, M. Pauly

17:15 - Treatment of Brewery Wastewater by Upflow Anaerobic Sludge Blanket (UASB) Combined Membrane Reactor (MBR)
H. Chen, S. Chang

17:35 – Data-driven Estimator of Brewery Wastewater Treatment Plant Key Components
L. Dewasme, N. Sobry

17:55 – Optimal Control of Beer Fermentation Process using POMODORO
Thursday July 4th

8:45 - Plenary lecture: Brewing, Winemaking and Distilling: Overview of Wastewater Treatment and Utilisation Schemes
L. Fillaudeau

Chairman: Prof. G. Buitron

9:45 - Keynote lecture: The Added Value of Used Cooperage Wood
E. Coelho

10:15 – Coffee break

10:30: Session 4 – Anaerobic Digestion and Biogas Production
Chairman: Prof. D. Jeison
Co-chairman: Dr. M. Sbarciog

10:30 - Revalorization of Sewage Sludge with Grape Marc to Produce Volatile Fatty Acids Through Anaerobic Co-digestion: Assessment of Process Feasibility
R. Iglesias-Iglesias, C. Kennes, M. Veiga

10:50 – Batch Hydrogen Production from Winery Effluents and the Effect of Ethanol Concentration
K. Muñoz-Páez, J. Cortés-Cervantes, G. Buitrón, J. Carrillo-Reyes

11:10 – Anaerobic Digestion of Winery Effluents using a Two-stage Process
G. Buitrón, F. Martínez-Valdez, F. Ojeda

11:30 – Methane Production from Highly Concentrated Red Wine Wastewater
M. Vital-Jácome, M. Cazarez-Granillo, G. Buitrón

11:50 - Maximization of Methane Production in Anaerobic Digestion Systems: an Extremum-Seeking Approach
M. Sbarciog, A. Vande Wouwer

12:20 – Numerical Implementation of Extremum-seeking Control Schemes in the IWA Anaerobic Digestion Model No. 1 (ADM1)
G. Lara-Cisneros, D. Dochain

12:40 – Lunch break

13:30 – Plenary lecture: Winemaking fermentation: from online monitoring to modeling and multicriteria optimization
J.-R. Mouret

Chairman: Prof. D. Jeison

14:30 – Keynote lecture: Online Biogas Composition Measurement with a Low-Cost Device for Winery Wastewater Treatment Bioreactor
15:00 – Coffee break

15:15 - Session 5 – Modeling and Model-Based Analysis  
Chairman: Dr. A. Donoso-Bravo  
Co-chairman: Prof. A. Vande Wouwer

15:15 – Model-based Assessment of the Influent Distribution System’s Impact on Solid Separation in a UASB Reactor  
J. Cisneros, F. Cobos, U. Rehman, I. Nopens, A. Alvarado

15:35 – CFD as a Tool for Anaerobic UASB Reactor Design and Operation in Winery and Brewery Wastewater Revalorization  
A. Donoso-Bravo, J. Rivas, M. C. Sadino-Riquelme, I. Garces, E. Marquez, A. Carvajal

15:55 – Multi-phases Anaerobic Reactor for Industrial Wasterwater Treatment  
C. Meunier, F. Gritten

16:15 – Anaerobic Digestion, Dynamics and Regions of Attraction: a Koopman Operator Based Approach  
C. Garcia, M. Sbarciog, E. Mojica, A. Vande Wouwer

16:35 – Modeling of Alcoholic Fermentation in Champagne-production Context  
R. David, P. Greiner, J. Grimard, F. Litoux-Desrues, A. Humbert-Goffard

16:55 - Multiscale modelling of S. cerevisiae by reducing the complexity of the metabolic network  
J. A. Joseph, S. Bhonsale, T. de Kinder, V. De Buck, J. Van Impe

17:00 – Coffee break

17:30 - Keynote lecture: The Internet of Water  
Koen Triangle (IMEC)

18:00 - A Review of Current Research Topics in Agricultural Waste Management and Reuse  
J. Rochard

18:20 - Flash presentations: The Latest Water Research in Belgium, explained in layman’s terms

19:15 - BIWA Awards

19:30 - Networking reception and walking dinner

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Friday July 5th

Technical visits and social events

Departure Time: 9:00 AM

From: Boulevard Dolez 31
<table>
<thead>
<tr>
<th>Event</th>
<th>Location and Details</th>
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<tbody>
<tr>
<td><strong>First visit</strong> (around 9:30)</td>
<td>Ruffus Wineyard (Vignoble des Agaises - <a href="http://www.ruffus.be">http://www.ruffus.be</a>), located in Haulchin (22km from Mons)</td>
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<td><strong>Second visit</strong> (around 11:30)</td>
<td>Biercée Distillery (<a href="https://www.bierceedistillery.com">https://www.bierceedistillery.com</a>), located in Ragnies (44km from Mons)</td>
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<tr>
<td><strong>Conference Lunch</strong> (13:00)</td>
<td>Biercée Distillery</td>
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