

Tuesday June 25th: Congress Palace & Hostal dos Reis Católicos

10.00 **Registration at Congress Palace - Exhibition set-up**

18.00 **Hostal dos Reis Católicos - Royal Chapel**
Opening Session
Welcome by Prof. Juan M. Lema, Chair of the Congress

18.15 **Welcome Plenary: Prof. Willy Verstraete**
“ Anaerobic digestion: About Beauty and Consolation”

19.00 **Welcome cocktail at Hostal dos Reis Católicos**

Wednesday June 26th: Congress Palace

08:30 **Santiago Room-Plenary Session 2: Prof. Lutgarde Raskin. University of Michigan. USA**
"Microbial ecology of engineered anaerobic bioreactor systems"

	Obradoiro Room	Santiago Room	Compostela Room
	Platform Presentations: Co-digestion	Platform Presentations: Biomolecular tools	Platform Presentations: Biorefinery
09:30	<p>KN1. Anaerobic co-digestion: a review of achievements and perspectives. Joan Mata. University of Barcelona(Spain)</p>	<p>PPB01. Stable isotope fingerprinting of biogas for the assessment of methanogenesis in anaerobic digesters. M. Nikolausz, R. F. H. Walter, Z. Lv, S. Kleinstaubler, J. Liebetrau, T. Schmidt, H. H. Richnow. DBFZ (Germany)</p>	<p>PPC01. Chain elongation of VFAs to MFAs - a key biotechnology to produce high value biochemicals from low grade biomass with open mixed cultures. D. Strik, T. Grootsholten, K. Steinbusch, W. S. Chen, B. Hamelers, C. Buisman. Wageningen University (The Netherlands)</p>
09:45		<p>PPB02. Mechanical approach to modeling the multicellular structure formation of Methanosarcina. V. Milkevych, D. J. Batstone. Aarhus University (Denmark)</p>	<p>PPC02. Development of a highly specific and productive process for n-caproic acid production: applying lessons from methanogenic microbiomes. M. T. Agler, C. M. Spirito, J. G. Usack, J. J. Werner, L. T. Angenent Cornell University (USA)</p>
10:00	<p>PPA01. Impact of interactions between substrates on the methane production of codigestion systems: an experimental approach. R. Girault, P. Peu, J. Buffet, F. Béline. Irstea (France)</p>	<p>PPB03. Metaproteomics of anaerobic microbial communities degrading long-chain fatty acids. A. F. Salvador, A. Bize, M. M. Alves, T. Bouchez, D. Z. Sousa. University of Minho (Portugal)</p>	<p>PPC03. Effect of pH and pressure on syngas fermentation by anaerobic mixed cultures. F. M. Pereira, M. M. Alves, D. Z. Sousa. University of Minho (Portugal)</p>
10:15	<p>PPA02. Long-term assessment of multiple substrates for anaerobic co-digestion on dairy farms. J. G. Usack, L. T. Angenent. Cornell University (USA)</p>	<p>PPB04. Metatranscriptomic analysis of a mesophilic sludge digester reveals community shifts under disrupted and continuous feeding regimes. G. Marandat, S. Lacroix, A. S. Lepeuple, T. Arnaud, T. Bouchez. Veolia Environnement Recherche & Innovation (France)</p>	<p>PPC04. Polyhydroxyalkanoates production from wood mill effluents. M. Vila, C. Kennes, M. C. Veiga. University of A Coruña (Spain)</p>
10:30	<p>PPA03. Anaerobic co-digestion of wastewater sludges and a food waste pulp from a "unpacking" process: Enhancement of biogas production and co-metabolism. A. Huyard, T. Treillon, A. Beaugrand, F. Lebars, B. Dubrous, P. Camacho. CIRSEE/Suez Environment (France)</p>	<p>PPB05. Molecular Analysis of Microbial Communities Involved in Anaerobic Sulphur-Oxidation in UASB Reactor Treating Municipal Sewage. A. A. Aida, M. Hatamoto, M. Yamamoto, S. Ono, A. Nakamura, M. Takahashi, T. Yamaguchi. Nagaoka University of Technology (Japan)</p>	<p>PPC05. Anaerobic granular sludge process for high-rate VFA production. J. Tamis, B. M. Joosse, M. C. M. van Loosdrecht, R. Kleerebezem. Delft University of Technology (The Netherlands)</p>
10:45	Coffee break-Poster session		
	Platform Presentations: Solid waste treatment	Platform Presentations: Microbial population dynamics	Platform Presentations: Energy recovery
11:15	<p>PPA04. Biomethane potential of wheat straw: influence of particle size, water impregnation and thermal hydrolysis. L. C. Ferreira, P. J. Nilsen, F. Fdz-Polanco, S. I. Pérez-Elvira. Cambi AS (Norway)</p>	<p>KN2. Functional insights into the microbial community dynamics during low-temperature anaerobic digestion. Vincent O'Flaherty. National University of Ireland Galway (Ireland)</p>	<p>PPC06. Anaerobic digestion for bio-upgrading syngas into renewable natural gas (methane). S. R. Guiot, R. Cimpioia, S. Sancho Navarro, A. Prudhomme, M. Filiatrault. National Research Council of Canada (Canada)</p>
11:30	<p>PPA05. Improving methane production and phosphorus release from saline sludge in anaerobic digestion. X. Zhang, R. B. Ferreira, J. Hu, H. Spanjers, J. B. van Lier. Delft University of Technology (The Netherlands)</p>		<p>PPC07. Removal of hydrogen sulphide from biogas by microaeration in UASB reactor. J. Bartacek, L. Krayzelova, N. Kolesarova, P. Jenicek. Institute of Chemical Technology Prague (Czech Republic)</p>

11.45	PPA06. Thermophilic two phase anaerobic digestion of SS-OFMSW for bio-hythane production: effect of recirculation sludge and microbiology in a long-term pilote scale experience. L. Zanetti, A. Giuliano, D. Bolzonella, F. Micolucci, C. Cavinato, P. Pavan. <i>University Ca' Foscari of Venice (Italy)</i>	PPB06. Relating Methanogen Community Structure and Anaerobic Digester Function. B. T. W. Bocher, D. H. Zitomer. <i>University of Wisconsin – Platteville (USA)</i>	PPC08. Key factors for achieving profitable biogas production from agricultural waste and sustainable biomass. B. Molinuevo-Salces, S. Larsen, R. Biswas, B. K. Ahring, H. Uellendahl. <i>Aalborg University Copenhagen (Denmark)</i>
12.00	PPA07. Impact of high solid content, particles size and low inoculation on the solid state anaerobic digestion of wheat straw J. C. Motte, R. Escudié, N. Bernet, J. P. Delgenes, J. P. Steyer, C. Dumas. <i>INRA (France)</i>	PPB07. Effects of temperature on the methanogenic pathways and microbial community of the high-rate methanogenesis system. D. P. Ho, P. D. Jensen, D. J. Batstone. <i>The University of Queensland (Australia)</i>	PPC09. Efficient in-situ biogas upgrading in an anaerobic reactor by the addition of H ₂ using hollow fiber membrane. G. Luo, I. Angelidaki. <i>Technical University of Denmark (Denmark)</i>
12.15	PPA08. Anaerobic fermentation of organic solid wastes: Volatile fatty acid production and separation. H. Yesil, A. E. Tugtas, A. Bayrakdar, B. Calli. <i>Marmara University (Turkey)</i>	PPB08. Acclimation of halophilic microbial communities from anaerobic sediments in continuous anaerobic bioreactors. A. Mottet, F. Habouzit, G. Santa-Catalina, J. Hamelin, J. P. Steyer. <i>INRA (France)</i>	PPC10. Lessons learned and optimisation of a 2.8 kW _e biogas-powered Solid Oxide Fuel Cell for cogeneration in sewage treatment. N. de Arespacochaga, A. Pérez, J. L. Cortina, C. Mesa, C. Peregrina, L. Bouchy. <i>CETAqua (Spain)</i>
12:30	Lunch (at Puerta del Camino Hotel)		
13.30	Coffee Break - Poster Session		
	Short-presentations: Solid waste treatment, co-digestion, new biomasses	Short-presentations: Biomolecular tools	Short-presentations: Biorefinery, energy recovery, environment, economics, full-scale
14:00	SPA1. Catch crops for agricultural biogas production, case study for <i>Brassicaceae sp.</i> P. Peu, S. Picard, R. Girault, J. Labreuche, F. Béline, P. Dabert. <i>Irstea (France)</i>	SPB01. Granule shearing enables the high resolution microbial identity. Y. Lu, F. Slater, R. Bello Mendoza, P. Jensen, P. Hugenholtz, D. J. Batstone. <i>The University of Queensland (Australia)</i>	SPC01. Fermentation of sucrose solution into volatile fatty acids and alcohols by a mixed bacterial culture in up-flow packed bed reactors. A. J. Silva, E. Pozzi, E. Foresti, E. M. Zaiat. <i>Universidade Estadual de Campinas (Brazil)</i>
14.10	SPA2. Evaluation of anaerobic digestion processes for short sludge-age waste activated sludge. H. Ge, D. J. Batstone, J. Keller. <i>The University of Queensland (Australia)</i>	SPB02. Microbial community and methanol conversion during long-term continuous operation of a methanol-fed UASB reactor. F. Yan, T. Kobayashi, S. Takahashi, Y. Y. Li. <i>Tohoku University (Japan)</i>	SPC02. Influence of operational parameters on biohydrogen and biopolymer production from molasses in a 2-stage process. I. Mariakakis, T. El-Zamel, C. Meyer, H. Steinmetz. <i>Institute of Sanitary Engineering (Germany)</i>
14:20	SPA3. Anaerobic digestion of chicken manure as a single substrate by control of ammonia concentration. D. Belostotskiy, H. F. Jacobi, K. Strach, J. Liebetrau. <i>Deutsches Biomasseforschungszentrum gemeinnützige GmbH (Germany)</i>	SPB03. Predicting bioaugmentation outcome based on SMA screening and methanogen community structure. K. Venkiteshwaran, B. Bocher, D. Zitomer. <i>Marquette University (USA)</i>	SPC03. Production of 1,3-propanediol in EGSB reactors by open mixed cultures using glycerol as the carbon source. R. Gallardo, C. Faria, A. Pereira, L. Rodrigues, M. Alves . <i>University of Minho (Portugal)</i>
14.30	SPA4. Comparison of mesophilic and thermophilic anaerobic digestion of food waste. C. Yirong, C. J. Banks, S. Heaven. <i>University of Southampton (UK)</i>	SPB04. Microbial community response to transitional states in anaerobic digesters. L. Regueiro, P. Veiga, M. Figueroa, J. M. Lema, M. Carballa. <i>University of Santiago de Compostela (Spain)</i>	SPC04. Efficient biohydrogen production from whey using a pilot scale carrier based bioreactor system. S. Martinek, V. Kastner, W. Schnitzhofer. <i>Profactor GmbH (Austria)</i>
14.40	SPA5. Positive energy balance by codigestion in the Granollers WWTP. À. Freixó, C. Turon, S. Rovira, J. Canals, A. Calvet, J. Arráez. <i>GS INIMA Environment S.A (Spain)</i>	SPB05. Enrichment and microbial characterization of syngas converting anaerobic cultures. J. I. Alves, M. Visser, A. J. M. Stams, C. M. Plugge, M. M. Alves, D. Z. Sousa. <i>University of Minho (Portugal)</i>	SPC05. Energy Recovery from Used Disposable Diapers by Co-Digestion with Waste Activated Sludge. M. Torrijos, P. Sousbie, M. Rouez, M. Lemunier, Y. Lessard, L. Galtier, A. Simao, J. P. Steyer. <i>INRA (France)</i>
14.50	SPA6. Enhanced fermentative hydrogen production from cassava stillage by co-digestion with different co-substrates. W. Wang, L. Xie, G. Luo, Q. Zhou. <i>Tongji University (China)</i>	SPB06. Microbial community composition and dynamics within two stage anaerobic digestion of wheat straw. K. Heeg, M. Pohl, M. Sontag, J. Mumme, M. Klocke, E. Nettmann. <i>Leibniz Institute of Agricultural Engineering Potsdam-Bornim (Germany)</i>	SPC06. Environmental burdens of nutrient removal technologies for the treatment of anaerobic digestion supernatant and its integration in a sewage treatment plant. G. Rodriguez-Garcia, N. Frison, J. R. Vazquez-Padin, A. Hospido, J. Garrido, F. Fatone, D. Bolzonella, M. T. Moreira, G. Feijoo. <i>University of Santiago de Compostela (Spain)</i>
15.00	SPA7. Anaerobic digestion of macroalgae: <i>Palmaria palmata</i> and <i>Saccharina latissima</i> . G. Jard, D. Jackowiak, H. Carrère, J. P. Delgenes, M. Torrijos, J. P. Steyer, C. Dumas. <i>INRA (France)</i>	SPB07. Characterization of Microbial Community During Anaerobic Digestion of the Organic Fraction of Municipal Solid Waste in Bioreactor Landfill Simulators. X. Fei, D. Zekkos, S. Tibbetts, L. Raskin. <i>University of Michigan (USA)</i>	SPC07. Performance evaluation of a new (Biobed Advanced) EGSB settler. K. Cuadros Perez, J. F. van Geest, A. Versprille, M. Otten, B. Heffernan. <i>Biothane Systems International (The Netherlands)</i>

15.10	SPA8. Anaerobic co-digestion of municipal sludge with FOG enhances the destruction of sludge solids. M. Tandukar, S. A. Hardy, R. Porter, H. Elmendorf, S. G. Pavlostathis. <i>Georgia Institute of Technology (USA)</i>	SPB08. Metabolic and microbial community dynamics during the anaerobic digestion of maize silage in a two-stage process. H. Sträuber, S. Kleinsteuber. <i>UFZ – Helmholtz Centre for Environmental Research in cooperation with Deutsches Biomasseforschungszentrum (DBFZ) (Germany)</i>	SPC08. Case Study of Anaerobic Digester Foaming in Egg Shaped Digesters. A. Miot, C. Klibert, B. Subramanian, B. M. Jones, D. Jolis, K. Pagilla. <i>Oceanside WPCP (USA)</i>
15.20	SPA9. Factors influencing the feasibility of using catch crops for biogas production. B. Molinuevo-Salces, B. K. Ahring, H. Uellendahl. <i>Aalborg University Copenhagen (Denmark)</i>	SPB09. Microbial community structure and population dynamics during low temperature (10°C) anaerobic digestion of dairy wastewater in an Inverted Fluidized Bioreactor. K. Bialek, V. O'Flaherty. <i>National University of Ireland (Ireland)</i>	SPC09. Rheological behaviour of anaerobic digested sludge: impact of concentration and temperature. N. Eshtiaghi, J. C. Baudez, P. Slatter. <i>RMIT University (Australia)</i>
15.30	SPA10. Impact of digestate fractions recirculation in continuous stirred tank reactor for anaerobic digestion of wheat straw. X. Peng, I. A. Nges, J. Liu. <i>Lund University (Sweden)</i>	SPB10. Anaerobic digestion of wheat straw by alkaliphilic mixed cultures and their physiological and molecular characterization. K. Porsch, B. Wirth, E. M. Tóth, F. Schattenberg, J. Derenkó, M. Nikolausz. <i>Helmholtz Centre for Environmental Research – UFZ (Germany)</i>	SPC10. Anaerobic Digester Foaming: occurrence and control in Spain. I. Rodríguez-Roda, M. Casellas, E. César, L. Pastor, E. Moliné, A. Bonmatí, B. Subramanian, K. Pagilla. <i>ICRA (Spain)</i>
15.40	SPA11. The effect of the dairy feed additive monensin on the stability of manure-based anaerobic digesters. C. M. Spirito, L. T. Angenent. <i>Cornell University (USA)</i>	SPB11. Influence of sludge pre-treatment on the microbial community structure in anaerobic digesters. L. Appels, S. Houtmeyers, S. Ruyters, P. Busschaert, B. Lievens, J. Van Impe, R. Dewil. <i>KU Leuven (Belgium)</i>	SPC11. Experiences with anaerobic treatment of fat containing food waste liquids: two full scale studies with a novel anaerobic flotation reactor. C. T. M. J. Frijters, T. Jorna, G. Hesselink, J. Kruit, D. van Schaick, R. van der Arend. <i>PAQUES BV (The Netherlands)</i>
15.50	SPA12. Co-digestion of Wheat Straw and Fruit/Vegetable Waste by Using an Innovative Integrated Two-phase Anaerobic Reactor. W. Xing, X. Chen, J. Zuo, J. Lin, C. Wang, K. Wang. <i>Tsinghua University (China)</i>	SPB12. Detection of <i>Archaea</i> in an upflow anaerobic sludge blanket reactor by in situ hybridization chain reaction -fluorescence in situ hybridization. T. Yamaguchi, S. Kawakami, M. Hatamoto, M. Takahashi, K. Kubota, H. Imachi, N. Araki, T. Yamaguchi. <i>Nagaoka University of Technology (Japan)</i>	SPC12. Excess brewery yeast co-digestion in a full-scale EGSB reactor. G. D. Zupančič, M. Roš, M. Klemenčič, M. Oset, R. Marinšek Logar. <i>Institute for Environmental Protection and Sensors (Slovenia)</i>
16.00	Coffee break-Poster session		
	Platform Presentations: New biomasses	Platform Presentations: Biodegradation	Platform Presentations: Environment & Economics
16.30	PPA09. Anaerobic biodegradability of <i>Nannocloropsis gaditana</i> after oil extraction and pretreatment. M. E. Alzate, R. Muñoz, F. Rogalla, F. Fdz-Polanco, S. I. Pérez-Elvira. <i>University of Valladolid (Spain)</i>	KN3. Anaerobic biotransformation of inorganic pollutants: Reducing environmental risk and recovering critical elements. Jim. A. Field. <i>University of Arizona (USA)</i>	PPC11. Advancing in the assessment of digestate conversion technologies: deepening in characterization and fertilizing value of output products. K. Golkowska, I. Vázquez-Rowe, V. Lebuf, F. Accoe, D. Koster. <i>Ressource Centre for Environmental Technologies (Luxembourg)</i>
16.45	PPA10. Evaluation of different strategies to maximize biogas production from algae. J. C. Costa, J. V. Oliveira, M. M. Alves. <i>University of Minho (Portugal)</i>		PPC12. Characterization of digestates: agronomic value and residual biodegradability. A. Tremier, J. Buffet, S. Berger, P. Dabert. <i>Irstea (France)</i>
17.00	PPA11. The use of microalgae and their culture medium for biogas production in an integrated cycle. E. L. Formagini, F. R. Marques, M. L. Serejo, P. L. Paulo, M. A. Boncz. <i>Federal University of Mato Grosso do Sul (Brazil)</i>	PPB09. Removal of organic micropollutants in an innovative Anaerobic/Aerobic Hybrid MBR system. T. Alvarino, D. Buntner, A. Sanchez, S. Suarez, J. M. Lema, F. Omil. <i>University of Santiago de Compostela (Spain)</i>	PPC13. Technical, economic and environmental assessment of household biogas digesters in developing countries. I. Ferrer, E. Cadena, I. Perez, M. Garfi. <i>Universitat Politècnica de Catalunya – BarcelonaTech (Spain)</i>
17.15	PPA12. Modelling start-up performance of anaerobic digestion of saline-rich macro-algae. A. Hierholtzer, J. C. Akunna. <i>University of Abertay Dundee (UK)</i>	PPB10. Simultaneous biodegradation of phenol and Reactive Red 2 with immobilized humic substances as redox mediator. C. M. Martínez, L. B. Celis, F. J. Cervantes. <i>Instituto Potosino de Investigación Científica y Tecnológica (Mexico)</i>	PPC14. The Value of Digestate Nutrients in Biopolymer Production. G. Kedia, P. Passanha, R. M. Dinsdale, A. J. Guwy, S. R. Esteves. <i>University of Glamorgan (UK)</i>
17.30	PPA13. Comparing pretreatment methods to improve the methane yield of microalgae grown in wastewater. F. Passos, I. Ferrer. <i>Universitat Politècnica de Catalunya-BarcelonaTech (Spain)</i>	PPB11. Biotransformation potential of phytosterols under anoxic and anaerobic conditions. C. M. Dykstra, H. D. Giles, S. Banerjee, S. G. Pavlostathis. <i>Georgia Institute of Technology (USA)</i>	PPC15. Anaerobic biodigestion of vinasse from sugarcane biorefineries in Brazil: energy, environmental and economic assessment. B. S. Moraes, T. L. Junqueira, L. G. Pavanello, O. Cavalett, P. E. Mantelatto, A. Bonomi, M. Zaiat. <i>CTBE-CNPem (Brazil)</i>
18.00	Workshop 1: Dr. Jean-Philippe Steyer "Microalgae and anaerobic digestion: could light help the dark fermentation?"	Workshop 2: Dr. Arthur Wellinger "Economic, technical and legal aspects"	Workshop 3: Dr. Robbert Kleerebezem "AD without Methane?"

19.30 Departure to Wine and tapas in Santiago's old town

21.00 Family Picture at "Plaza Platerías"

21.15 "The botafumeiro swing" at the Cathedral

21.45 Concert at the Cathedral by Martin Codax Group

Thursday June 27th: Congress Palace

08.30 **Santiago Room-Plenary Session 3: Dr. Jos Pâques.** Paques Holding B.V. The Netherlands
"How to advance from the concept to the industrial application of new technologies"

Obradoiro Room

Santiago Room

Compostela Room

Platform Presentations: Modelling & control

Platform Presentations: Anaerobic membrane bioreactors

Platform Presentations: Pre-treatment

09.30 **KN4.** Modelling and control in anaerobic digestion: achievements and challenges. **D. J. Batstone.** *University of Queensland (Australia)*

PPB12. Anaerobic dynamic membrane bioreactors for high strength wastewater treatment. **M. E. Ersahin, J. B. Gimenez, H. Ozgun, Y. Tao, J. B. van Lier.** *Delft University of Technology (The Netherlands)*

KN5. Squeezing the sludge. Thermal hydrolysis to improve WWTP sustainability. **Fernando Fdz-Polanco.** *University of Valladolid (Spain)*

9.45 **PPB13.** Optimum scaling-up of submerged anaerobic membrane bioreactors (SAnMBRs) treating urban wastewater. **J. Ferrer, N. Martí, M. V. Ruano, A. Robles, J. B. Giménez, F. Durán, L. Carretero, R. Pretel, F. García-Usach, J. Serralta, L. Borrás, J. Ribes, A. Seco.** *Universitat Politècnica de València (Spain)*

10.00 **PPA14.** Prediction of anaerobic biodegradability and bioaccessibility of municipal sludge by coupling sequential extractions with fluorescence spectroscopy: towards ADM1 implementation. **J. Jimenez, E. Gonidec, J. P. Steyer, E. Latrille, F. Vedrenne, J. A. Cacho Rivero.** *Veolia Environment Research & Innovation (France)*

PPB14. Mitigation of shock loads using ion exchange resins in a submerged anaerobic membrane bioreactor (SAMBR). **A. Akram, D. C. Stuckey.** *Imperial College London (UK)*

PPC16. Fate of organic matter during moderate heat treatment of sludge: kinetic of biopolymer and hydrolytic activity release and impact on sludge reduction by anaerobic digestion. **D. Lefebvre, V. Dossat-Létisse, X. Lefebvre, E. Girbal-Neuhauser.** *Université de Toulouse (France)*

10.15 **PPA15.** Linking thermodynamics and kinetics to assess pathway reversibility in anaerobic fermentations. **R. González-Cabaleiro, J. M. Lema, J. Rodríguez, R. Kleerebezem.** *University of Santiago de Compostela (Spain)*

PPB15. Fouling control in anaerobic membrane bioreactors under saline conditions. **J. Yang, H. Spanjers, J. B. van Lier.** *Delft University of Technology (The Netherlands)*

PPC17. Ozone pretreatment of olive mill wastewaters (OMW) coupled with anaerobic digestion. **N. Pontillo, E. Tsintavi, M. A. Dareioti, V. Tsarpali, S. Dailianis, M. Kornaros.** *University of Patras (Greece)*

10.30 **PPA16.** Kinetic and thermodynamic approach for the quantification of interspecies hydrogen transfer in non-defined microbial communities. **H. Junicke, R. Kleerebezem, M. C. M. van Loosdrecht.** *Delft University of Technology (The Netherlands)*

PPB16. Hydrogen production in a membrane bioreactor with granular sludge: influence of the organic loading rate and the hydraulic retention time. **C. E. Hernández-Mendoza, G. Buitrón.** *UNAM (Mexico)*

PPC18. Enzymatic and metabolic activities in four anaerobic sludges and their impact on methane production from ensiled sorghum forage. **C. Sambusiti, E. Ficara, M. Rollini, A. Musatti, I. Retinò, M. Manzoni, F. Malpei.** *Politecnico di Milano (Italy)*

10.45 Coffee Break - Poster Session

Platform Presentations: Modelling & control

Platform Presentations: Innovative technologies

Platform Presentations: Anammox

11.15 **PPA17.** Effects of influent fractionation, kinetics & stoichiometry and mass transfer on CO₂, CH₄ and H₂ production for (plant-wide) modelling of anaerobic digesters. **K. Solon, X. Flores-Alsina, K. V. Gernaey, U. Jeppsson.** *Lund University (Sweden)*

KN6. High-efficiency carbon-neutral anaerobic domestic wastewater treatment at any temperature. **P. L. McCarty.** *Inha University (Republic of Korea)*

PPC19. Advanced bioprocesses for N removal from the liquid fraction of co-digested piggery/poultry manure and agro-wastes. **D. Scaglione, G. Tornotti, A. Teli, E. Ficara, R. Canziani, F. Malpei.** *Politecnico di Milano (Italy)*

11.30 **PPA18.** Mixing performance of gas sparging system in a model anaerobic digester. **S. C. Low, R. Parthasarathy, P. Slatter, N. Eshtiaghi.** *RMIT University (Australia)*

PPC20. Implications of full scale implementation of an anammox based process as post-treatment of a municipal anaerobic sludge digester operated with co-digestion. **J. R. Vázquez-Padín, N. Morales, R. Gutiérrez, R. Fernández, F. Rogalla, J. P. Barrio, J. L. Campos, A. Mosquera-Corral, R. Méndez.** *Aqualia (Spain)*

11.45 **PPA19.** A methodology for coupling DGGE and mathematical modelling: Application in bio-hydrogen production. **E. Tapia, A. Donoso-Bravo, L. Cabrol, M. Alves, A. Pereira, A. Rapaport, G. Ruiz-Filippi.** *Pontificia Universidad Católica de Valparaíso (Chile)*

PPB17. A Bioelectrochemical System as Stabilizing and Remediating Agent in Anaerobic Digestion. **J. De Vrieze, S. Gildemyn, J. B. A. Arends, N. Boon, W. Verstraete, T. Hennebel, K. Rabaey.** *Ghent University (Belgium)*

PPC21. Remaining Obstacles with the Start-up of a Full-scale Deammonification SBR treating Effluent from Digested Sludge Dewatering. **S. Lackner, K. Thoma, W. Gander, D. Schreff, H. Horn.** *Karlsruhe Institute of Technology (Germany)*

12.00	PPA20. Operational control and optimisation of a full scale digester based on multi-parameter monitoring including microbial population profiles. J. B. Williams, H. G. Williams, R. Dinsdale, A. J. Guwy, S. R. Esteves. <i>University of Glamorgan (UK)</i>	PPB18. Anaerobic granulation using humus-reducing microorganisms and γ -Al ₂ O ₃ nanoparticles coated with humic acids. L. H. Alvarez, C. M. Martinez, F. J. Cervantes. <i>Instituto Tecnológico de Sonora (Mexico)</i>	PPC22. Operational experience of the ANAMMOX® reactor in the last decade and future outlook. J. Kruit, M. Remy, N. Kang, W. Driessen, M. Ettinger, T. L. G. Hendrickx. <i>Paques bv (The Netherlands)</i>
12.15	PPA21. Modelling diffusional effects in anaerobic granules and its consequences on reactor design. I. López, M. Odriozola, L. Borzacconi. <i>Universidad de la República (Uruguay)</i>	PPB19. Cow and termite digestion mimicking: from animal digestive tracts to lab-scale pilots. D. Conteau, J. J. Godon, R. Escudié, A. Battimelli, M. Torrijos, S. Martin Ruel, P. Camacho, J. P. Steyer. <i>INRA (France)</i>	PPC23. Population dynamics at the limits of DEMON plant operations. B. Wett, G. Nyhuis, S. Podmirseg, M. Gómez-Brandón, T. Puempel, M. Hell, W. Kirchler, M. Cesconi, S. Murthy. <i>ARAconsult GmbH (Austria)</i>
12.30	Lunch (at Puerta del Camino Hotel)		
13.30	Coffee Break - Poster Session		
	Short-presentations: Modelling & Control	Short-presentations: Innovative technologies & Anaerobic membrane bioreactors	Short-presentations: Pre-/Post-treatment, nutrient recovery
14.00	SPA13. ADM1 simulation of the thermophilic mono-fermentation of maize silage - Use of an uncertainty analysis for substrate characterization. T. Gehring, M. Lübken, K. Koch, M. Wichern. <i>Ruhr-Universität Bochum (Germany)</i>	SPB13. Effect of upflow velocity on the ultrafiltration resistance of UASB Effluents. H. Ozgun, M. E. Ersahin, Y. Tao, H. Spanjers, J. B. van Lier. <i>Delft University of Technology (The Netherlands)</i>	SPC13. The role of the NO ₂ ⁻ :NH ₄ ⁺ ratio and the nitrogen loading rate on the stability of ANAMMOX bioreactors. J. M. Carvajal-Arroyo, B. Garcia-Lapeña, R. Sierra-Álvarez, J. A. Field. <i>University of Arizona (USA)</i>
14.10	SPA14. New step in anaerobic digestion modeling: estimating changes in isotopic composition as a way to reveal metabolic pathways. V. A. Vavilin. <i>Institute of Water Problems of the Russian Academy of Sciences (Russia)</i>	SPB14. IASB-Inverted Anaerobic Sludge Blanket reactor: background, history and development. M. Picavet, M. Alves. <i>University of Minho (Portugal)</i>	SPC14. Biological removal of ammonium and <i>p</i> -cresol linked to nitrite reduction. G. González-Blanco, R. Beristain-Cardoso, F. Cuervo-López, F. J. Cervantes, J. Gomez. <i>Universidad Autónoma Metropolitana-Iztapalapa (Mexico)</i>
14.20	SPA15. Modelling of dark fermentation from household organic waste based on modified ADM1. S. Mazeghrane, E. Latrille, D. Jung, F. Vedrenne, D. Chenu, A. Bizet, E. Trably, J. P. Steyer. <i>Veolia Environment Research & Innovation (France)</i>	SPB15. Efficient methane fermentation from organic solid wastes by using bioelectrochemical system. M. Morita, K. Sasaki, D. Sasaki, A. Watanabe, N. Ohmura. <i>Central Research Institute of Electric Power Industry (Japan)</i>	SPC15. Post-treatment of a submerged anaerobic membrane bioreactor (SAnMBR) effluent by an activated sludge system. J. E. Sánchez-Ramírez, A. Bouzas, A. Seco, J. Ferrer, F. García-Usach. <i>Universitat de València (Spain)</i>
14.30	SPA16. Implementation of sulphate reduction and sulphide inhibition in ADM1 for modelling of a pilot plant treating bioethanol wastewater. L. Hinken, M. Patón Gassó, D. Weichgrebe, K. H. Rosenwinkel. <i>Leibniz Universitaet Hannover (Germany)</i>	SPB16. Enrichment of Exoelectrogens on Xylose from Anaerobic Digester Sample. M. E. Nissilä, M. L. K. Sulonen, J. A. Puhakka. <i>Tampere University of Technology (Finland)</i>	SPC16. UASB reactor effluent nitrogen removal in an aerated-facultative pond at a poultry slaughterhouse. V. Del Nery, M. H. Z. Damianovic, R. B. M. Moura, E. Pozzi, E. Foresti. <i>Universidade de São Paulo (Brazil)</i>
14.40	SPA17. Modeling the anaerobic digestion of autohydrolysis-pretreated secondary sludge: first-order and ADM1 comparison. T. S. O. Souza, A. Carvajal, A. Donoso-Bravo, M. Peña, F. Fdz-Polanco. <i>University of Valladolid (Spain)</i>	SPB17. Decolorization of azo dye in a newly developed plug-flow baffled bioelectrocatalyzed reactor. Q. Sun, D.Cui, H. Cheng, W. Liu, A. Wang. <i>Harbin Institute of Technology (China)</i>	SPC17. Continuous anaerobic digestion of highly concentrated secondary sludge and the effect produced by the autohydrolysis pretreatment. A. Carvajal, M. Peña. <i>Universidad Técnica Federico Santa María (Chile)</i>
14.50	SPA18. CFD investigation of the flow characteristics of a plug flow anaerobic digester for lignocellulosic biomass methanisation. M. Lübken, K. Koch, L. Klauke, T. Gehring, M. Wichern. <i>Ruhr-Universität Bochum (Germany)</i>	SPB18. Anaerobic Loop Reactors: development of novel concepts and design criteria for airlift and agitated suspended sludge systems for industrial wastewater treatment. J. Knodel, S. U. Geißen. <i>Technische Universität Berlin (Germany)</i>	SPC18. Effects of low strength ultrasonication on the physico-chemical characteristics of methanogenic granules. S. K. Cho, Y. H. Hwang, D. H. Kim, S. E. Oh, H. S. Shin. <i>KAIST (Republic of Korea)</i>
15.00	SPA19. Disintegration and hydrolysis kinetics modelling for ADM1 application to codigestion: lab-scale model calibration with fruit and vegetable waste. S. García-Gen, P. Sousbie, G. Rangaraj, J. M. Lema, J. Rodríguez, M. Torrijos. <i>University of Santiago de Compostela (Spain)</i>	SPB19. The effects of iron and system operation for sludge reduction in the Cannibal™ process. P. Khanthongthip, J. T. Novak, S. Suwandee. <i>King Mongkut's Institute of Technology (Thailand)</i>	SPC19. Influence of thermal pre-treatment on the anaerobic digestion of olive mill solid waste. L. Bujalance, B. Rincón, F. G. Feroso, R. Borja. <i>Instituto de la Grasa (Spain)</i>
15.10	SPA20. Characterization of Particulate Substrates in Batch Reactors for Design and Modelling Purposes. M. Torrijos, P. Sousbie, J. Harmand, S. Garcia-Gen, J. P. Steyer. <i>INRA (France)</i>	SPB20. Increasing bioanodes performance by thermal, chemical and electrochemical oxidation treatments of carbon electrodes. B. Cercado, L. F. Cházaro-Ruiz, V. Ruiz, I. J. López-Prieto, G. Buitrón, E. Razo-Flores. <i>Instituto Potosino de Investigación Científica y Tecnológica (Mexico)</i>	SPC20. Evaluation of pre-treatment conditions of biomass waste from the halophyte <i>Salicornia bigelovii</i> cultivated in sea water. T. Chaturvedi, J. M. Uratani, M. H. Thomsen, J. Rodríguez. <i>Masdar Institute of Science and Technology (UAE)</i>

15.20	SPA21. Parameter Identifiability using Gas Flow Rate and pH Measurements from Anaerobic Batch Reactor Experiments. C. F. Osborne, C. Brouckaert, K. M. Foxon. <i>University of KwaZulu-Natal (South Africa)</i>	SPB21. Operating strategies to improve performance and coulombic efficiency by selecting electrogens over methanogens in microbial fuel cells. A. Kaur, K. R. Fradler, H. C. Boghani, J. R. Kim, I. Michie, R. M. Dinsdale, A. J. Guwy, G. C. Premier. <i>University of Glamorgan (UK)</i>	SPC21. Comparing the influence of ultrasonic and microwave pre-treatment on the solubilisation and semi-continuous digestion of waste activated sludge. S. Houtmeyers, L. Appels, J. Degève, J. Van Impe, R. Dewil. <i>KU Leuven (Belgium)</i>
15.30	SPA22. Evaluation of operational stability of anaerobic sludge digester in terms of volatile fatty acids dynamics. W. R. M. Leite, B. S. Magnus, E. W. Maffazzoli, A. Dal Mago, P. Belli Filho. <i>Federal University of Santa Catarina (Brazil)</i>	SPB22. Autogenerative High Pressure Digestion: Future Potentials and Constraints. R. E. F. Lindeboom, C. E. Zagt, S. G. Shin, J. Weijma, C. M. Plugge, J. B. van Lier. <i>Wageningen University (The Netherlands)</i>	SPC22. Thermo-alkaline pre-treatment to solubilize and improve anaerobic biodegradability of press mud. L. M. López González, H. Vervaeren, I. Pereda Reyes, A. Dumoulin, O. Romero Romero, J. Dewulf. <i>University of Sancti Spiritus “José Martí Pérez” (Cuba)</i>
15.40	SPA23. Anaerobic Digestion Model based on Mass Balances. Development, Implementation and Validation. O. Kujawski, H. Steinmetz. <i>Stuttgart University (Germany)</i>	SPB23. Effect of organic carbon sources and COD / sulfate ratios on the Innovative Integrated Reactor System for Simultaneous Removal of Carbon, Sulfur and Nitrogen and Elemental Sulfur Reclamation. Y. Yuan, C. Chen, D. Sun, C. Huang, X. Xu, N. Ren, A. Wang. <i>Harbin Institute of Technology (China)</i>	SPC23. Ozonation as a pre-treatment for anaerobic digestion of waste activated sludge: Effect of the ozone doses. G. Silvestre, M. B. Ruiz, M. Fiter, C. Ferrer, J. G. Berlanga, S. Alonso, A. Canut. <i>AINIA Technology Centre (Spain)</i>
15.50	SPA24. Incorporating water chemistry into the steady-state models for wastewater treatment processes: case study anaerobic reactor in the SANI® process. I. Lizarralde, C. J. Brouckaert, G. A. Ekama, P. Grau. <i>CEIT and Tecnun. University of Navarra (Spain)</i>	SPB24. Start-up of an AnMBR for winery wastewater treatment. N. Basset, J. Dosta, J. Mata-Álvarez. <i>University of Barcelona (Spain)</i>	SPC24. Effects of Thermal Pretreatment and Trace Metals on High-rate Thermophilic Anaerobic Digestion of Sewage Sludge. M. Takashima, E. Nakakihara, R. Ikemoto. <i>Fukui University of Technology (Japan)</i>

16.00 **Coffee Break - Poster Session**

	Platform Presentations: Modelling & control	Platform Presentations: Full-scale implementation	Platform Presentations: Post-treatment
16.30	PPA22. Anaerobic respirometry as a tool to evaluate the effect of pretreatment on anaerobic digestion efficiency. M. N. Rincker, A. Diara, P. Peu, N. Badalato, R. Girault, H. Carrère, D. Bassard, A. Pauss, T. Ribeiro, F. Béline. <i>Irstea (France)</i>	KN7. AD in China: From technical innovation to full-scale implementation. Nanqi Ren. <i>Harbin Institute of Technology (China)</i>	PPC24. Growth of microalgal biomass on supernatant from biosolids dewatering. E. Ficara, A. Uslenghi, D. Basilico, V. Mezzanotte. <i>Politecnico di Milano (Italy)</i>
16.45	PPA23. Plant wide wastewater treatment modelling - biodegradability of organics. D. S. Ikumi, T. H. Harding, G. A. Ekama. <i>University of Cape Town (South Africa)</i>		PPC25. Recycling black water nutrients by algae-based photobiodegradation. T. V. Fernandes, R. Shrestha, B. Ibelings, G. Zeeman. <i>Netherlands Institute of Ecology (The Netherlands)</i>
17.00	PPA24. Variable geometry individual based modelling of indirect versus direct interspecies electron transfer in microbial communities. T. Storck, B. Viridis, C. Picioreanu, D. J. Batstone. <i>University of Queensland (Australia)</i>	PPB20. Anaerobic digestion foaming in Danish full-scale biogas plants: a survey on causes and solutions. P. G. Kougias, K. Boe, S. O-Thong, L. A. Kristensen, I. Angelidaki. <i>Technical University of Denmark (Denmark)</i>	PPC26. Experience from start-up and operation of ANITA™Mox MBBR plants and development of a new advanced N-removal process - IFAS ANITA™Mox. S. Lacroix, F. Veuillet, A. Bausseron, E. Gonidec, R. Lemaire, M. Christensson, G. Zalakain, J. Ochoa. <i>Veolia Environment Research and Innovation (France)</i>
17.15	PPA25. ADM1 application to anaerobic co-digestion: generalised implementation of fermentable soluble substrates. S. García-Gen, J. M. Lema, J. Rodríguez. <i>University of Santiago de Compostela (Spain)</i>	PPB21. Organic matter removal from wastewater with high sulfate concentration by sulphidogenic and methanogenic combined pathways. R. S. Vilela, M. H. R. Z. Damianovic, E. Foresti. <i>University of São Paulo (Brazil)</i>	PPC27. AMMONOX-Ammonia for enhancing biogas yield & reducing NOx. H. N. Gavala, P. G. Kristensen, N. B. K. Rasmussen, P. Thosttrup, I. V. Skiadas. <i>Aalborg University Copenhagen (Denmark)</i>
17.30	PPA26. Optimized restart of a full scale biogas plant after disturbances by means of an anaerobic simulation model. E. Mauky, B. Fritsche, J. Pröter, H. F. Jacobi, J. Liebetrau. <i>DBFZ - Deutsches Biomasseforschungszentrum (Germany)</i>	PPB22. Evaluation of UASB reactor performance during start-up operation using Cuban vinasse as a sulfate rich liquid substrate. E. L. Barrera, H. Spanjers, J. Dewulf, O. Romero, E. Rosa. <i>Sancti Spiritus University (Cuba)</i>	PPC28. Enhanced via-nitrite phosphorus removal from nitrogenous anaerobic supernatant in a sequencing batch reactor. N. Frison, E. Katsou, S. Malamis, S. Di Fabio, F. Fatone. <i>University of Verona (Italy)</i>

18.45 **Departure to Gala Dinner: Gran Hotel La Toja (O Grove)**

Friday June 28th: Congress Palace

10.00	Santiago Room-Plenary Session 4: Prof. Rolando Chamy. Pontificia Universidad Católica de Valparaíso. CHILE. “Anaerobic digestion to decrease carbon footprint”		
	Obradoiro Room	Santiago Room	Compostela Room
	Platform Presentations: Inhibition	Platform Presentations: Industrial	Platform Presentations: Sewage

11.00	PPA27. Sulfur and metal speciation in biogas reactors. S. Shakeri Yekta, U. Skyllberg, A. Björn, J. Gustavsson, A. Karlsson, B. H. Svensson. <i>Linköping University (Sweden)</i>	PPB23. Effect of Sludge Retention Time on the performance of Anaerobic Membrane Bioreactors treating corn-based bioethanol thin stillage. F. P. van der Zee, A. Grelot, R. K. Dereli, J. G. van der Lubbe, B. Heffernan. <i>Biothane Systems International (The Netherlands)</i>	KN8. Current limitations and the necessary improvements in the anaerobic technology for domestic wastewater treatment. Carlos. A. L. Chernicharo. <i>Universidade Federal de Minas Gerais (Brazil)</i>	
11.15	PPA28. Do by-products of thermochemical treatment of lignocellulosic materials inhibit anaerobic mixed cultures? Overview of recent findings. F. Monlau, E. Trably, A. Barakat, M. Quemeneur, J. P. Steyer, H. Carrère. <i>INRA (France)</i>	PPB24. Start-up of hybrid anaerobic biofilm reactor treating effluent and using wheat straw as both a carrier support and a substrate. M. A. Wahab, F. Habouzit, G. Gévaudan, N. Bernet, J. P. Steyer, N. Jedidi, R. Escudié. <i>University of Carthage (Tunisia)</i>		
11.30	PPA29. Fate and inhibitory impact of ZnO nanoparticles on methanogenic upflow anaerobic sludge blanket reactors. L. Otero-González, J. A. Field, R. Sierra-Álvarez. <i>University of Arizona (USA)</i>	PPB25. Influence of the organic loading rate on the hydraulic behaviour and the azo-dye removal in an anaerobic filter. Y. L. Cobos-Becerra, S. González-Martínez. <i>Universidad Nacional Autónoma de México (Mexico)</i>		PPC29. Effect of temperature on the treatment of domestic wastewater with a staged anaerobic fluidized membrane bioreactor (SAF-MBR) system. R. H. Yoo, J. H. Kim, P. L. McCarty, J. H. Bae. <i>Inha University (Republic of Korea)</i>
11.45	PPA30. Effect of pesticides on the performance of methanogens in anaerobic wastewater treatment systems. V. M. Monsalvo, N. Garcia-Mancha, D. Puyol, A. F. Mohedano, J. J. Rodriguez. <i>Universidad Autonoma de Madrid (Spain)</i>	PPB26. Sugarcane Molasses based Bio-Ethanol Wastewater Treatment by two-phase multi-staged UASB combination with UASB&DHS. P. Choeisai, N. Jitkam, K. Silapanoraset, C. Yubolsai, K. Sytsubo, T. Onodera, W. Yoochatchaval, T. Yamaguchi. <i>Khon Kaen University (Thailand)</i>		PPC30. Anaerobic submerged membrane bioreactor (AnSMBR) for municipal wastewater treatment under ambient temperature conditions. M. Peña Miranda, J. Gouveia, F. Plaza, G. Garralon, F. Fdz-Polanco. <i>University of Valladolid (Spain)</i>
12.00	PPA31. Improved biogas production at high ammonia by management of reactor operation for support of syntrophic acetate oxidisers. M. Westerholm, J. Moestedt, A. Schnürer. <i>Swedish University of Agricultural Sciences (Sweden)</i>	PPB27. Impact of aggressive organic loading rate increase using a novel approach for methanising brewer's spent grain in EGSB reactors. H. Y. Wang, Y. Tao, M. F. Temudo, M. K. de Kreuk, H. Bijl, J. Kloek, J. B. van Lier. <i>Delft University of Technology (The Netherlands)</i>	PPC31. Sequential anaerobic-aerobic fixed-bed reactors employing an innovative packing material for domestic wastewater treatment. M. M. Araujo Junior, T. L. S. Araujo, M. Zaiat. <i>Bio Proj Tecnologia Ambiental (Brazil)</i>	
12.15	Lunch (at Puerta del Camino Hotel)			
13.15	Coffee Break - Poster Session			
	Short-presentations: Inhibition & Biodegradation	Short-presentations: Methodology & Kinetics	Short-presentations: Industrial & Sewage	
13.45	SPA25. The various microbial activity at different ammonia nitrogen concentrations for thermophilic and mesophilic biogas processes. E. Nordell, C. Vahlberg, J. Moestedt. <i>Tekniska verken i Linköping (Sweden)</i>	SPB25. A new and straightforward biosensor to quantify volatile fatty acids in digestates. A. Soares, E. Greggio, A. Crowley, E. Wood, J. Brigg, E. Cartmell. <i>Cranfield University (United Kingdom)</i>	SPC25. Anaerobic Digestion as a Treatment Strategy to Enable Resource Recovery in Intensive Food Production. P. D. Jensen, C. Carney, T. Sullivan, D. J. Batstone. <i>The University of Queensland (Australia)</i>	
13.55	SPA26. Effect of salts on the anaerobic digestion of aerobic granular sludge. T. Palmeiro, A. Val Del Río, A. Mosquera-Corral, J. L. Campos, R. Méndez. <i>University of Santiago de Compostela (Spain)</i>	SPB26. Determination of the hydrolysis constant using Anaerobic Batch Tests. S. Ay, D. Weichgrebe, K. H. Rosenwinkel. <i>Leibniz Universität Hannover (Germany)</i>	SPC26. Effect of the recycle on the two-phase anaerobic digestion process treating coffee wet wastewater. Y. Guardia-Puebla, S. Rodríguez-Pérez, J. Jiménez-Hernández, V. Sánchez-Girón, J. M. Morgan-Sagastume, A. Noyola. <i>Universidad Politécnica de Madrid (Spain)</i>	
14.05	SPA27. Non-syntrophic reactions in anaerobic unsaturated LCFA conversion by methanogenic sludges. A. J. Cavaleiro, M. A. Pereira, A. J. M. Stams, M. M. Alves, D. Z. Sousa. <i>University of Minho (Portugal)</i>	SPB27. Sulfide Effects on the Anaerobic Kinetics of Phosphorus-Accumulating Organisms. S. A. Saad, L. Welles, C. M. Lopez-Vazquez, M. C. M. van Loosdrecht, D. Brdjanovic. <i>Ain Shams University (Egypt)</i>	SPC27. Organics removal and biogas production characteristics of UASB in treating sulfate-rich wastewater. Z. Jing, Y. Hu, Y. Y. Li. <i>Nanjing Forestry University (China)</i>	
14.15	SPA28. Effect of microwave pretreatment on fate and removal of steroidal hormones during anaerobic digestion of municipal waste sludge. H. Hamid, C. Eskicioglu. <i>University of British Columbia (Canada)</i>	SPB28. Lab-scale Anaerobic Digester Follow-up by Near Infra-Red Spectroscopy. A. Boulanger, A. F. Coutier, A. Ponthieux, C. Laroche, R. Treguer, M. Poitrenaud, J. A. Cacho Rivero. <i>Veolia Environment Research & Innovation (France)</i>	SPC28. Assessing the performance of high-rate anaerobic reactors treating three-phase olive mill wastewater (OMW). M. Zakoura, A. Kopsahelis, M. Kornaros. <i>University of Patras (Greece)</i>	

14.25	SPA29. Fate of antibiotics, steroid hormones and multiple endocrine activities during biological treatment of swine manure under anaerobic and aerobic/anoxic conditions. S. Combalbert, M. J. Capdeville, V. Bellet, R. Rajagopal, J. C. Motte, P. Balaguer, F. Béline, N. Bernet, H. Budzinski, G. Hernandez-Raquet. <i>INRA (France)</i>	SPB29. Control of VFAs in anaerobic reactors: Is it an easy task? What do we know about off-line analytical performance? F. Raposo, V. Fernández-Cegrí, R. Borja, J. Mumme, J. A. Cacho, D. C. Rodríguez, P. Kaparaju, P. Scherer, J. Noguerol, C. Dumas, A. Nielfa, N. García-Mancha, R. Méndez, S. Picard, S. Esteves, J. Vermeulen, C. Cavinato, K. Orupöld, E. Aymerich, S. Di Bernardino. <i>Instituto de la Grasa (Spain)</i>	SPC29. Anaerobic granular sludge properties at high salinity. S. B. Ismail, H. Temmink, C. M. Plugge, J. B. van Lier. <i>Wageningen University (The Netherlands)</i>
14.35	SPA30. Relationship between phenol degradation efficiency and microbial community structure in an Anaerobic SBR. F. Rosenkranz, L. Cabrol, M. Carballa, A. Donoso-Bravo, L. Cruz, G. Ruiz-Filippi, R. Chamy, J. M. Lema. <i>Pontificia Universidad Católica de Valparaíso (Chile)</i>	SPB30. The role of CO ₂ liquid-gas exchange in pH prediction for anaerobic digestion modelling. C. J. Brouckaert, K. M. Foxon, C. F. Osborne, C. M. Lees. <i>University of KwaZulu-Natal (South Africa)</i>	SPC30. Evaluation of anaerobic treatment of crude glycerol from biodiesel production in a UASB bioreactor. M. F. G. Albuquerque, K. G. Silva, B. R. Alzamora, S. F. Aquino, S. Q. Silva. <i>Universidade Federal de Ouro Preto (Brazil)</i>
14.45	SPA31. Effect of starch and ethanol as electron donors, and sulfate on the reductive decolourisation of azo dye Direct Black 22. B. Trindade, M. T. Kato, L. Florencio, S. Gavazza. <i>Federal University of Pernambuco (Brazil)</i>	SPB31. Characterization of the anaerobic digestion of thermal pre-treated slaughterhouse waste by applying new IR techniques. A. Rodríguez-Abalde, X. Gómez, D. Blanco, M. J. Cuetos, X. Flotats, B. Fernández. <i>Leibniz Institute for Agricultural Engineering Potsdam-Bornim (Germany)</i>	SPC31. Anaerobic digestion of domestic wastewater at low temperatures (4, 8 and 15°C) in reactors with psychrophilic inocula. E. Petropoulos, J. Dolfing, E. Bowen, R. Davenport, T. Curtis. <i>Newcastle University (UK)</i>
14.55	SPA32. <i>p</i> -Cresol mineralization and bacterial population dynamics in a nitrifying sequential batch reactor. C. D. Silva, L. Beristain-Montiel, F. M. Cuervo-López, A. C. Texier. <i>Universidad Autónoma Metropolitana-Iztapalapa (Mexico)</i>	SPB32. Kinetics of primary sludge digestion at various temperatures. P. Buffière, M. Choo-Kun, M. De Backer, D. Conteau, P. Camacho, P. Dauthuille, R. Gourdon. <i>University of Lyon (France)</i>	SPC32. Bioreactor performance, hydrolysis and microbial community development during anaerobic treatment of synthetic sewage. C. Keating, D. Cysneiro, D. Hughes, T. Mahony, V. O'Flaherty. <i>National University of Ireland (Ireland)</i>
15.05	SPA33. Assessment of Biodegradability of Diclofenac under Methanogenic Conditions. S. Sari, G. Özdemir, E. Topuz, E. Aydin, E. Pehlivanoglu-Mantas, D. Okutman Tas. <i>Istanbul Technical University (Turkey)</i>	SPB33. Anaerobic digestion of SS-OFMSW: Impact of seed on methanogenic abundance and digester performance. S. Ghanimeh, M. El-Fadel, P. E. Saikaly. <i>American University of Beirut (Lebanon)</i>	SPC33. Refractory organic matter content in sewage sludge: inaccessibility for hydrolysis or/and chemical resistance? S. Decremps, E. Paul, F. Vedrenne, J. A. Cacho Rivero, X. Lefebvre. <i>Université de Toulouse (France)</i>
15.15	SPA34. Inhibitory effect of heavy metals on nitrogen production by anaerobic ammonium oxidation bacteria. G. Li, D. Puyol, R. Sierra-Alvarez, J. A. Field. <i>University of Arizona (USA)</i>	SPB34. Application of F420 diagnostic as operational support for industrial anaerobic reactors. Th. Arnaud, A. Fourçans, E. Cronier. <i>Veolia Water (France)</i>	SPC34. Faeces and food waste co-digestion for development of decentralised urban resource recovery in Singapore. C. L. Chen, J. W. Lim, Y. Mao, A. Ahamed, I. J. R. Ho, B. J. H. Ng, R. Rajagopal, J. Y. Wang. <i>Nanyang Technological University (Singapore)</i>
15.25	SPA35. Carbon nanotubes as novel redox mediators for dyed wastewaters biodegradation. L. Pereira, R. A. Pereira, F. Pereira, M. M. Alves. <i>University of Minho (Portugal)</i>	SPB35. The influence of pre-incubation, storage and homogenization of inoculum for batch tests on biogas production. M. Gerber, N. Schneider, A. Kowalczyk, S. Schwede, Z. Rehman, R. Span. <i>Ruhr-Universität Bochum (Germany)</i>	SPC35. Sludge transfer point of a UASB-digester system: key to efficient low temperature anaerobic sewage treatment. L. Zhang, T. L. G. Hendrickx, C. Kampman, G. Zeeman, H. Temmink, W. G. Li, C. J. N. Buisman. <i>Harbin Institute of Technology (China)</i>
15.35	SPA36. Nonionic Linear Alcohol Ethoxylated removal in an Anaerobic Fluidized Bed Reactor. F. Motteran, J. K. Braga, I. K. Sakamoto, E. L. Silva, M. B. A. Varesche. <i>University of São Paulo (Brazil)</i>	SPB36. Determination of lipid fraction from organic wastes using Nuclear Magnetic Resonance (NMR): Comparison to the soxhlet method. S. Picard, F. Beline, R. Girault, G. Bridoux, C. Cambert, A. Davenel. <i>Irstea (France)</i>	SPC36. Simultaneous calcium phosphate precipitation in anaerobic treatment of black water: a new approach to phosphorus recovery. T. Tervahauta, R. D. van der Weijden, L. Hernández Leal, G. Zeeman, C. J. N. Buisman. <i>Wetsus (The Netherlands)</i>

Santiago Room

Closure Ceremony

16.00	Proposals for organisation of AD14
16.30	The "Three Giants Session"
17.30	Lettinga Award
18.00	AD13 Awards
18.15	Nomination of organisers for AD14
18.30	Final remarks & Farewell
18.45	Cocktail

Saturday June 29th 2013

09.00	Technical visit (Option A. A Coruña)
09.00	Technical visit (Option B. Pontevedra)