	Tuesday 09/06
8:15-9:00	Registration (ETSE-UV)
9:00-17:00	**Workshops**

18:30-19:15	Registration (*Palau de Les Arts*)
19:30-21:00	**Welcome Ceremony** **Opening speech: The Anaerobic Digestion Route in the Comunitat Valenciana** *GVA representative - Generalitat Valenciana (Spain)* **Opening speech: IWA Vision on Anaerobic Digestion** *Prof. Kala Vairavamoorthy - Executive Director International Water Association (UK)* **Opening speech: Anaerobic Digestion, an old story for today and tomorrow** *PhD Jean-Philippe Steyer - INRAE-LBE (France)*
21:00-22:30	**Welcome Reception**

	Wednesday 10/06		
8:00-8:45	Registration (*Palau de Congressos de València*)		
8:45-9:15	**Opening Address**		
9:15-10:00	**Plenary speech: Broadening the bioproduct portfolio of anaerobic digestion via biogas and digestate bioconversion** *Prof. Raúl Muñoz - Universidad de Valladolid (Spain)*		
	auditorium 1	*auditorium 2*	*auditorium 3*
10:00-11:00	**S1a** **Building biorefinery platforms: thermal processes**	**S1b** **Sustainability assessment and beyond**	**S1c** **Decentralized systems**
	Transforming Advanced Biological Treatment Plant Sludges Into Energy: Hydrothermal Liquefaction-Anaerobic Digestion *Alizad Oghyanous, Farid; Eskicioglu, Cigdem (The University of British Columbia - Universitat Politècnica de Catalunya , Canada)*	Managing Methane Emissions From Anaerobic Digestion: National Science-based Policy For Biomethane Sustainability *Bajon Fernandez, Yadira (Cranfield University, United Kingdom)*	Determinants Of Microbial Community Structure And Process Performance In Manure-fed Farm-scale Biogas Plants *Perman, Ebba; Ahlberg Eliasson, Karin; Schnürer, Anna (Swedish University of Agricultural Sciences, Sweden)*
	Optimising Thermal Hydrolysis Process (THP)-AD Through Strategic Targeting Of Hydrolysis Blind Spots-Batch & Pilot Study *Nasar, Nasreen; Pizzagalli, Giulia; Coulon, Frederic; Bajón Fernández, Yadira (Cranfield University, United Kingdom)*	LCA And TEA Of The Production Of RNG From Organic Waste In A Novel Integrated Biochemical And Electrochemical System *Puente, Pedro; Fairley-Wax, Tim; Lippert, Thomas; Nielsen, Heather; Zhu, Kuang; Wells, George; Lin, Yupo; Urgun-Demirtas, Meltem; Raskin, Lutgarde; Skerlos, Steve (James Madison University, United States)*	Modular Anaerobic Bioelectrochemical Reactor Coupled With Biofilm Based-processes For Decentralized Wastewater Treatment *Estrada-Arriaga, Edson; García-Sánchez, Liliana; Falcón-Rojas, Axel; Gómez-Lázaro, Belén; Carranza-Almanza, Paola; Esquivel-Sotelo, Alberto (Mexican Institute of Water Technology, Mexico)*
	Hydrothermal Carbonisation Of Sewage Sludge Digestate: A Post-Treatment Approach For Energy And Nutrient Recovery *Shahnawazi, Ali Ahmad; Tibbetts, Harry; Carvalho, Lara; Schwede, Sebastian (Mälardalen University, Sweden)*	Advanced Monitoring Of Fugitive Methane From Full-scale Wastewater Treatment Plants Using Multi-level Sensing Techniques *Elsayed, Ahmed; Abdelrahman, Omar; Ismail, Amr; Kakar, Farokh; Le, Trung; Cavanaugh, Shannon; Willis, John; da Silva, Allegra; Santoro, Domenico; AlSayed, Ahmed; Elbeshbishy, Elsayed (Toronto Metropolitan University, Canada)*	Decentralized Photobiorefineries For Municipal Wastewater Treatment: Demonstration Of ANPHORA® Technology *MARÍN, EUGENIO; Monsalvo, Victor; Zamora Bonachella, Patricia; Encinas, Ángel; Tena, Miriam; Rogalla, Frank (FCC Aqualia, Spain)*
	When Does Microaeration Enhance The Valorization And Stabilization Of Hydrothermal Liquefaction (HTL) Process Water? *Zhou, Mei; Khanal, Samir Kumar; Angenent, Largus Theodora (The Hong Kong University of Science and Technology, Hong Kong, China)*	GasAbate Treatment Reduces Gaseous Emissions And Retains The Biogas And Fertiliser Potential Of Pig And Cattle Manure *O'Flaherty, Vincent; Hughes, Dermot; Thorn, Camilla; Friel, Ruairi; O'Neill, William; Chin, Jason; McGrath, John; Williams, Paul; McDonagh, Michael; Nolan, Stephen (University of Galway, Ireland)*	Assessment Of A Multi-stage Treatment Of Wastewater From Individual Systems: Removal Of CECs, Path And AMR *Salgado, Adrián; Garrido Fernández, Juan Manuel; Omil Prieto, Francisco; Suárez, Sonia; Lois, Marta; Carreira, Carla; Takeda, Paula Yumi; López Romalde, Jesús (University of Santiago de Compostela, Spain)*
11:00-11:30	***Coffee Poster Session***		

	Wednesday 10/06		
	S2a **Building biorefinery platforms: protein production**	**S2b** **Adding value to liquid streams and digestate**	**S2c** **Industrial waste(water) valorization #1**
11:30-13:00	Two-step Single Cell Protein Production From Biological Gases Through homoacetogenesis: An Initial Assessment *Gallardo-Mejías, Juan Pablo; Capson-Tojo, Gabriel; Álvarez-Fraga, Laura; Steyer, Jean-Philippe; Pastor, Laura; Ruano, María Victoria; Robles, Ángel (Universitat de València, Spain)*	Spectral Approaches To Predict C And N Mineralisation During Anaerobic Digestion And After Digestate Soil Application *Do Souto Soeiro, Jessica; Latrille, Eric; Servien, Rémi; Zennaro, Bastien; Thoisy, Jeanne Chantal; Houot, Sabine; Steyer, Jean-Philippe; Jimenez, Julie (INRAE, France)*	Are We Positive About Cellulose? Better Substrates For Quality Control In Biochemical Methane Potential Measurement *Hafner, Sasha; Leca, Estelle; Astals, Sergi; Koch, Konrad; Liu, Jing; Nistor, Mihaela; Olaya-Rincon, Mario; Sambusiti, Cecelia; Monlau, Florian (Hafner Consulting LLC, United States)*
	Maximized Microbial Protein Production With Hydrogen Oxidizing Bacteria For Simultaneous CO2 Mitigation And Nr Recovery *Wang, Wen (Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, China)*	Nitrogen Recovery From Anaerobic Reject Water Via An Open--closed Loop Hydrophobic Membrane Contactor *Lo Coco, Riccardo ; Pezzuto, Marco; Frison, Nicola (University of Verona, Italy)*	Intermittent Microaeration: A Comparison Between Lignocellulosic Digestion And Food Waste--Sewage Sludge Co-Digestion *Surendra, K C; Chuenchart, Wachiranon; Nguyen, Duc; Wu, Zhuoying; Sawaya, Christelle; Shrestha, Shilva; Smith, Adam L.; Lee, Po Heng; Raskin, Lutgarde; Khanal, Samir (The Hong Kong University of Science and Technology, Hong Kong, China)*
	Biogas Valorization Into Single-cell Protein By Mixed Methanotrophic-Hydrogenotrophic Culture *Gesicka, Aleksandra; Kvaran, Helga; Angelidaki, Irini (Technical University of Denmark, Denmark)*	Start-up Of A Microbial Electrolysis Cell Pilot Plant For Ammonia Recovery From Agri-food Anaerobic Digestates *Gorchs, Maria; Cerrillo, Miriam; Bonmatí, August; Ruiz, Noelia; Moreno, Miguel; Riau Arenas, Víctor (Institute of Agrifood Research and Technology (IRTA), Spain)*	Sustainable Acid Rock Drainage Remediation Using Locally Available Organic Wastes In The Global South *Ochoa-Herrera, Valeria; Zambrano-Romero, Aracely; Trueba, Gabriel; Field, Jim (Universidad San Francisco de Quito (USFQ), Ecuador)*
	Efficient Conversion Of Volatile Fatty Acids Into High-value Lipids And Proteins By A Lichen Like System *Levio Raimán, Marcela ; González-Fernández, Cristina (University of Valladolid, Spain)*	Ultra-low-voltage Strategy For Efficient Energy Recovery From Sewage *Chen, Sijia; Meng, Xinran; Liu, Ziwei; Huang, Xia (Tsinghua University, China)*	Exploring The Potential Of Hydroxyapatite Nanoparticles In Enhancing Anaerobic Digestion Yields Of Lipid-rich Wastewate *Russo, Annalisa; Oliva, Armando; Cesaro, Alessandra (University of Naples "Federico II", Italy)*
	Carbon-efficient Microbial Protein Production Via Continuous Co-cultivation Of Methane- And Hydrogen-oxidizing Bacteria *Diaz Allegue, Luis; Farabegoli, Federica; Regueiro, Leticia; Fajardo, Paula; Vlaeminck, Siegfried (Antwerp University, Belgium)*	Bioelectrochemically Assisted Anaerobic Co-digestion Of Agri-food Residues At Pilot Scale *Arnal Sierra, Raquel; López Martí, Pau; Molognoni, Daniele; Borràs, Eduard (Leitat - Acondicionamiento Tarrassense, Spain)*	Multiscale Hydrodynamic Features Drive Anaerobic Granule's Characteristics In Calcium-rich Wastewater *Eslami, Hooman; Bruning, Harry; Krug, Julia; Rijnaarts, Huub H.M.; Sudmalis, Dainis (Wageningen University & Research, Netherlands)*
	From Lab To Pilot Scale: Bioconversion Of Digestate And CO2 From AD Into Microbial Protein *Di Benedetto, Francesca; Di Venosa, Luna; Cantera, Sara; Turolla, Andrea; Ficara, Elena (Politecnico di Milano, Italy)*	Reagent-free Rapid Estimation Of Free Ammonia In Algal Systems Using Chlorophyll Fluorescence Transients *Kishi, Masatoshi; Karachaliou, Panagiota; Fujiki, Tetsuichi; Noguchi Aita, Maki; Muñoz Torre, Raúl (Institute of Sustainable Processes, Universidad de Valladolid, Spain)*	How Much Salt Can Thermophilic Digesters Take? Mapping Ammonium And Sodium Inhibition Across Multiple Inocula *Ruggiero, Luca; Moscoviz, Roman (SUEZ CIRSEE, France)*
13:00-14:00	*Lunch*		
14:00-14:30	***Conference Photograph & Coffee Poster Session***		

	Wednesday 10/06		
	S3a **Adding value to (bio)gas: CO2 and H2**	**S3b** **Industrial waste(water) valorization #2**	**S3c** **Modelling, control and beyond #1**
14:30-16:30	**Keynote: Microbes assisting technologies for CO2 capture and recycle** *Prof. Irini Angelidaki - Technical University of Denmark (Denmark)*	**Keynote: Finding the opportunity space for anaerobic technologies in industrial wastewater valorization** *Prof. Jeremy Guest - University of Illinois Urbana-Champaign (USA)*	**Keynote: Models for Learning, Models for Control in Anaerobic Digestion Systems** *Prof. Jorge Rodriguez - Khalifa University (UAE)*
	In-situ CO2 Conversion To Biomethane In Electrode-assisted Anaerobic Digesters Using Digestate-derived Biochar Cathodes *Ning, Xue; Ni, Jun; Sachan, Deepa; Bose, Archishman; Wall, David; Furst, Ariel; Murphy, Jerry (University College Dublin, United States)*	Optimization Of Recirculation Ratio In Two-phase Anaerobic Co-digestion Of Food Waste And Paper Waste *Zeng, Qingkang; Ha, Juntong; Li, Yu-You; Qin, Yu (Tohoku University, Japan)*	AD Automation And Experimental Validation In Lab-scale: A Software Architecture For Monitoring And Control Using An ADM1 *Hellmann, Simon; Lerch, Leander; Stors, Daniel; Athanasopoulos, Panagiotis; Petzke, Felix; Sauerteig, Philipp; Wilms, Terrance; Knorn, Steffi; Streif, Stefan; Weinrich, Sören (DBFZ Deutsches Biomasseforschungszentrum, Germany)*
	Techno-economic Assessment Of Biomethanation For Ex Situ Biogas Upgrading In A WWTP *Ferrari, Federico; Arribas, Luis; Fiffe, Pablo; Diaz, Israel; Morais Junior, Wilson Galvao; Iglesias, Raquel; Micó, Maria del Mar (ACCIONA Agua, Spain)*	Synergistic Co-digestion Of Sugarcane Bagasse And Swine Manure For Enhanced Methane Production *Galdino, Geovanna; Rabelo, Camila; Lourenço, Vitor; Rodrigues, Caroline; Varesche, Maria Bernadete (University of São Paulo, Brazil)*	Development And Validation Of A Scalable Digital Twin For Anaerobic Reactors In The Agri-Food Industry *Gomez, Antonio; Gimeno, Eduardo; Pardo, Leyre; Royo, Lucía; Labarías, Alejandro; Molina, Daniel; Roche, Enric; Marín, José Manuel; Renzi, Danielle; Greggio, Ellen; Frison, Nicola (Nabladot, S.L., Spain)*
	Succinic Acid Production From Biogenic CO2 Using A Novel Hybrid Fermentation System In SEMPRE-BIO Project *Llimós Turet, Jordi; González-Camejo, Josué; Benítez Téllez, Ana Belén (BETA Tech. Center. University of Vic - Central University of Catalonia (UVic-UCC), Spain)*	Effect Of Carbon Materials On Palm Oil Mill Effluent Digestion During A Gradual Mesophilic-to-Thermophilic Transition *Abdillah, Ayik; Hidaka, Taira; Fujiwara, Taku; Yoshida, Naoko; Hidayatullah, Ibnu Maulana; Maulidiany, Nopa Dwi (Kyoto University, Japan)*	Optimal Utilisation Of Anaerobic Digestion In Integrated Energy--wastewater Systems *Aghdam Tabar, Saba; Safder, Usman; Casey, Eoin; Cotterill, Sarah; Dereli, Recep Kaan (University College Dublin, Ireland)*
	Optimising H2 Mass Transfer In Membrane Biofilm Reactors: A Pilot-scale Assessment Of Periodic Venting *Reena Krishna, Keerthy; Bonato, Irene; Catenacci, Arianna; Malpei, Francesca (Politecnico di Milano, Italy)*	Understanding Olive Pomace Valorisation Through Anaerobic (co)digestion And Fermentation *Correa, Sandra; Astals, Sergi; Forns, Nuria; Vila, Joaquim; Zahedi, Soraya; Fermoso, Fernando; Ferrer, Ivet; Passos, Fabiana (Universitat Politècnica de Catalunya, Spain)*	Towards Energy-autonomous Anaerobic Digestion: Adaptive Model Predictive Control For Mesophilic-Thermophilic Transition *Moradvandi, Ali; Carvajal-Arroyo, José; Picavet, Merijn; de Kreuk, Merle; Lindeboom, Ralph (Delft University of Technology, Netherlands)*
	Hydrogen Utilization And Methanation Efficiency In Sewage Sludge Digestion: Effects Of Temperature And Feeding Modes *Kwang, Ching Yi; Hidaka, Taira; Fujiwara, Taku; Akimoto, Shinya; Tsubota, Jun (Kyoto University, Japan)*	Coupling Fish Waste Anaerobic Digestion, Ammonia Extraction, And Microbial Protein Production *Postacchini, Pietro; Bertelsen, Sofie; Valverde-Pérez, Borja (Postdoc, Denmark)*	From Process Monitoring To Predictive Insight In Multi-tank Anaerobic Digestion *De Bernardini, Nicola; Francescato, Luca; Zampieri, Guido; Pastor-Poquet, Vicente; Fabbri, Claudio; Campanaro, Stefano; Treu, Laura (University of Padova, Italy)*
	Succinate Production From Acid Whey In Mixed Culture Fermentation: Effects Of CO2 Supplementation *Prusak, Hanna; Brodowski, Filip; Gutowska, Natalia; Duber, Anna; Zagrodnik, Roman; Lezyk, Mateusz; Oleskowicz-Popiel, Piotr (Poznan University of Technology, Poland)*	Kinetic Evidence Of Substrate Inhibition And Lack Of Short-term Nano-magnetite Effect In Anaerobic Phenol Degradation *Kumianto, Rifki Wahyu; Muñoz Sierra, Julian; Spanjers, Henri; Kleerebezem, Robbert; van Lier, Jules (Delft University of Technology, Netherlands)*	Control-oriented Modelling And Parameter Estimation Of Anaerobic Co-digestion For Full-scale Applications *Ficara, Elena; Carecci, Davide; Catenacci, Arianna; Rossi, Simone; Ferretti, Gianni (Politecnico di Milano, Italy)*
16:30-16:40	*Refresh break*		

	Wednesday 10/06		
	Flash1a **Flash: Industrial waste(water)**	**Flash1b** **Flash: Adding value to (bio)gas**	**Flash1c** **Flash: Sustainability, Microbial Science, and Emerging Contaminants**
16:40-17:20	Anaerobic Bioconversion Of Volatile Tar Compounds To Methane During Syngas Biomethanation *Amiri, Roonak; Angelidaki, Irini; Postacchini, P.; Grimalt Alemany, Antonio; Ghofrani-Isfahani, Parisa; Benedetti, Vittoria; Baratieri, Marco; , (Faculty of Engineering, Free University of Bolzano, Denmark)*	Enhanced Biogas Yield And Stability In A Pilot-Scale Anaerobic Digestion--Microbial Electrolysis Cell (AD-MEC) System *Timmers, Rudolphus Antonius; Sanchéz Gatón, Miguel; Pérez Zapatero, Enrique; Ballesteros Amor, Maximo Pablo; Alonso de Larrea, Lucas; Hidalgo Barrio, Dolores (CARTIF Foundation, Spain)*	High-solids Versus Conventional Anaerobic Digestion: Life Cycle Assessment And Economic Analysis As Comparison Tools *Mainardis, Matia; Gievers, Fabian; Di Costanzo, Nicola; Moretti, Alessandro; Di Capua, Francesco (University of Udine, Italy)*
	Potentials Of Anaerobic Membrane Bioreactor For Lipid-rich Dairy Wastewater Treatment And Permeate Reuse In Agriculture *Szabo Corbacho, Maria ; Miguez, Diana; Hooijmans, Christine; Garcia, Hector; van Lier, Jules (UTEC - Universidad Tecnologica del Uruguay, Uruguay)*	Full-scale Anaerobic Co-digestion And Renewable Energy Integration At Riu Ripoll WWTP: Towards Carbon Neutrality *Jordan, Lluís; Pino, Adolfo; Izquierdo, Antonio; Rodero, Álex; Santacruz, Elisabeth (Aigües Sabadell (Veolia), Spain)*	Economic Efficiency In Wastewater Treatment Plants: The Role Of Scale, Biogas Production And Technologies *Leroy-Freitas, Deborah; Torres-Franco, Andrés Felipe; Molinos-Senante, María (University of Valladolid, Institute of Sustainable Processes, Spain)*
	Assessing The Biodegradability Of PET: Barriers And Early Approaches For Its Valorisation In WWTP Anaerobic Digesters *Santonja Coloma, Marina; Lera Modino, Maria; Martí Ortega, Nuria; Serralta Servilla, Joaquín (Universitat Politècnica de València, Spain)*	A Comparative Study Of Thermophilic H2-assisted Ex-situ Biogas Upgrading In A Biotrickling Filter Under Different PH *Garrido Rodríguez, David; Cantera Ruiz de Pellón, Sara; Muñoz Torre, Raul (Institute of Sustainable Processes (ISP), Spain)*	Methane Leakage Thresholds Determine The Climate Impact And Economics Of Wastewater Biogas Recovery *Li, Xiatong; Ren, Z. Jason; Zhu, Junjie; Yan, Yuqing; Li, Trung (Princeton University, United States)*
	Enhanced Biogas From Mezcal Vinasses Via Two-Stage Co-Digestion Stimulating DIET With Non-Conventional Wastes *Vargas-Gómez, Erika; García-Sánchez, Liliana; Barragán-Trinidad, Martin; Sebastian-Pathiyamattom, Joseph; Garzón-Zúñiga, Marco Antonio; Arias-Lizárraga, Dulce María; Estrada-Arriaga, Edson Baltazar (Mexican Institute of Water Technology, Mexico)*	High Organic Loading Treatment Of Liquified PLA-containing wastewater In An Electrical Voltage-applied UASB Reactor *Ashraf Joolaei, Ali; Makian, Masoud; Mohit, Mohamad Ali; Kim, Gyeongcheol; Parvez, Md Rakib; Yoon, Sun; Ra, Hyeong jun; Kang, Sungmo; Lee, Yujin; Kim, Dong-Hoon (Inha University, Korea, Republic of)*	Meta-analysis Of Chemical And Microbial Constraints On Chain Elongation *Zhang, Xinran; Martinez, Daniela; Skerlos, Steve; Raskin, Lutgarde (University of Michigan Ann Arbor, United States)*
	Three-phase Flow Regimes And Bed Expansion In Upflow Anaerobic Granular Reactors *Garcia Tirado, Ruben; Trifi, Delia; Monrós-Andreu, Guillem; Torro, Salvador; Chiva, Sergio; Martinez-Cuenca, Raul (FACSA, Spain)*	MethAlgae Co-cultures For The Valorization Of Biogas Towards Ectoine: A Bottom-up Approach *De Smet, Kenzie (KU Leuven, Belgium)*	Metagenomic Profiling Of Carbohydrate-active Enzymes In A Rumen-inspired AnDMBR During Food Waste Mono- And Co-digestion *Karki, Renisha; Skerlos, Steven; Raskin, Lutgarde (University of Michigan, United States)*
	Synergistic Thermochemical And Enzymatic Pretreatment To Enhance Anaerobic Digestion Of Canadian Hardwood Residues *Azizi, Armineh; Koupaie, Ehssan (Queen's University, Canada)*	Neutral Water Electrolysis - A Novel Power-to-gas System Combining Green Hydrogen And Renewable Natural Gas Production *Lippert, Thomas; Lin, Yupo; Nielsen, Heather; Wells, George (Northwestern University, United States)*	Unravelling Differential Impacts Of Multiple Biodegradable Plastics On Anaerobic Digestion Systems *Luo, Xiaoliang; Jin, Yan; Liu, Guangqing; Chen, Chang (College of Chemical Engineering, Beijing University of Chemical Technology, China)*
	High-load Methanogenesis In Fixed-bed Reactors Fed With Sulfate-depleted Fermented Vinasse Supported By Carryover Buffer *Borges, André; Fuess, Lucas; Oliveira Filho, Leonardo; Mendes, Julia; Rogeri, Renan; Nogueira, Elis; Damianovic, Marcia Helena; Zaiat, Marcelo (Universidade de São Paulo, Brazil)*	Insight Into Selection And Modeling Of Purple Sulfur Bacteria For Biogas Treatment *Carrier, Morgane; Ružić, Todor; Peyre-Lavigne, Matthieu; Lepercq, Pascale; Mercade, Myriam; Dumas, Claire; Sperandio, Mathieu (INSA Toulouse, France)*	Strategy Balances Bio-resource Recovery And Antimicrobial Resistance Mitigation In Lincomycin-laden Anaerobic Digestion *Xie, Li; Xie, Jing; Zhu, Wenzhe; Yin, Daqiang; Wnag, Wen (College of environmental science and engineering, Tongji University , China)*
	Mesophilic AD Of Municipal Sewage Sludge Under High Sodium Propionate Concentrations In Semi-continuous Conditions *AGUMAH, Joel Awinzure; LIU, Xiaojun; ANDRE, Laura; AUNEAU, Camille; THIBAULT, Sophie; BUREAU, Chrystelle; GUERIN, Sabrina; ROCHER, Vincent; LACROIX, Carlyne; CHAPLEUR, Olivier; BIZE, Ariane; ROOSE-AMSALEG, Céline; PAUSS,André; RIBEIRO, Thierry (Université de Technologie de Compiègne, France)*	A Broader Perspective On Metabolic Interactions In Syngas Biomethanation *Goonesekera, Estelle; Grimalt-Alemany, Antonio; Angelidaki, Irini (Technical University Of Denmark, Denmark)*	Integrating Anaerobic Co-digestion In Rural Systems: Dual Control Of Biogas Dynamics And Fertilizer Quality *Hidaka, Taira; Nakamura, Masato; Oritate, Fumiko; Fujita, Mutsumi; Ihara, Hitotaka; Matsuda, Shuh; Miyamoto, Toyohisa (Kyoto University, Japan)*
17:20-18:20	**Orxata Poster Session**		

Thursday 11/06

8:00-8:30	Registration (*Palau de Congressos de València*)		
8:30-9:15	**Plenary speech: Fate of Biodegradable Plastics in Anaerobic Digestion: Potential Resources vs. Hidden Risks** *Prof. Chang Chen - Beijing University of Chemical Technology (China)*		
	auditorium 1	*auditorium 2*	*auditorium 3*
09:15-11:00	**S4a** **Industrial waste(water) valorization #3**	**S4b** **Adding value to (bio)gas: biogas and bioCH4**	**S4c** **Novel technologies and processes**
	Anaerobic Lignin Degradation Under Sulfate-Reducing Conditions *Franco Vieira, Bárbara; Abreu B. Silva Rabelo, Camila; M. Ramos-Muñoz, Víctor; Zaiat, Marcelo; G. Fermoso, Fernando (University of Sao Paulo, Brazil)*	Biological Methane Oxidation: A Potential Renewable Pathway For Energy Recovery *Herzyk, Tymon; Gómez-Borraz, Tania; Gonzalez-Cabaleiro, Rebeca; Sloan, William (University of Glasgow, United Kingdom)*	Ocean-Deployed Dark Fermentation: Converting Marine Organic Matter To Energy Intermediates For Ocean Applications *Hackula, Anga; Lansing, Stephanie (University of Maryland, United States)*
	Anaerobic Digestion Of Dairy UF Permeate: Efficiency And Energy Recovery Potential *Yepez, Oscar; Casey, Eoin; Dereli, Kaan; Browne, James (University College Dublin, Ireland)*	Sustainable Biogas Upgrading Via A Novel Photocatalyst-Microbial Hybrid System *Xia, Tianzhuo; Zhang, Yingdi; Zhang, Lei; Han, Ershuan; Xu, Jingsan; Liu, Yang (Queensland University of Technology, Australia)*	Lyophilised Composite Hydrolytic And Methanogenic Inoculum Bioaugmented In A Continuous Anaerobic Reactor *Fotidis, Ioannis; Yan, Yixin; Pitsikoglou, Dimitra; Tsitsimpikou, Maria-Athina; Lithourgidis, Antonios; Tzenos, Christos; Kotsopoulos, Thomas (Aristotle University of Thessaloniki, Greece)*
	Anaerobic Digestion And Carbon Recovery In Industrial Wastewater Systems: Balancing Energy Recovery And Net-Zero Targets *Lei, Tianyu; Whale-Obrero, Jaime; Larsen, Sille B.; Cai, Siying; Kjellberg, Kasper; Gernaey, Krist; Flores-Alsina, Xavier (Technical University of Denmark, Denmark)*	Evaluating Impact Of Co- Vs. Counter-diffusional Substrate Delivery In A Hollow-fiber Membrane Biofilm Reactor For Ex-situ Biomethanation *Nielsen, Heather; Lippert, Thomas; Nannapuraju, Pranava; Freiburger, Andrew; Lin, Yupo; Raskin, Lutgarde; Wells, George (Northwestern University, United States)*	Iron And Carbon-Based Conductive Materials For Enhanced Anaerobic Digestion Of OFMSW *Sánchez, David; Villamil, John A.; Fermoso, Javier; Tomás, Elia (IMDEA energy, Spain)*
	Turning Winery Waste Into Profit: Medium-chain Fatty Acids Production *Quintana Álvarez, Hugo; Reino Sánchez, Clara; Castro Barros, Celia María; Carballa Arcos, Marta (Cetaqua, Spain)*	Biogas Upgrading Via Ex-situ Biological Methanation In A WWTP: Analysis Of Biomethane Commercialisation Models *Bobillo Alvarez, Jaime; Checa Sanchez, David; Castro Barros, Celia Maria; Pastur Romay, Mateo; Poch Palou, Maurici; Arnaldos Orts, Marina; Córdova Valencia, Alejandra (CETAQUA, Spain)*	Voltage Regulation Ferrous Release And Homoacetogenesis Inhibition Synergistic To Enhance Hydrogen And Vivianite Recovey *Guo, Zhengtong; Liu, Zhihong; Yue, Xiuping; Zhou, Aijuan (Taiyuan University of Technology, China)*
	Anaerobic Co-digestion Of Fat, Oil And Grease At A Pilot Demonstration Plant: Reward, Risk And Readiness *Bai, Xue; Al-gertan, Estabraq; Du, Bolong; Li, Huijuan; Dwyer, Jason; Jensen, Paul (The University of Queensland, Australia)*	Simultaneously Biogas Upgrading And Value-added Chemical Production In A Membrane Biofilm Reactor *Zhou, Linjie; Wu, Mengxiong; Lai, Chunyu; Guo, Jianhua (Technical University of Denmark, Denmark)*	Electromethanogenesis In Wastewater Treatment: How Far Have We Come? *Silvestre, Gracia; Zuriaga, Elena; Vega, Maria; Molognoni, Daniele; Borras, Eduard (FACSA, Spain)*
	Bioaugmentation Of Salt-resistant Biofilm To Enhance Stability In AHR Treating High Salinity Industrial Wastewater *Hudayah, Nasrul; Suksong, Wantanasak; Boonapatcharoen, Nimaradee; Ainthaklay, Janphen; Kongduan, Varunee; Laopitinun, Onamon; Waewsak, Chaiwat; Suraraksa, Benjaphon (King Mongkut's University of Technology Thonburi, Thailand)*	Enhancing Biogas Upgrading With Carbon-Coated Iron Nanoparticles In Arthrospira Platensis Cultures At Pilot-Scale *Anagnostopoulou, Chrysa; Vargas-Estrada, Laura; Kougias, Panagiotis; Muñoz, Raúl (Hellenic Agricultural Organization - DIMITRA, Greece)*	Bioelectroactive Co-Culture For Simultaneous Ammonium And Methane Removal *Holohan, Conall; Sanz-Mendoza, Pablo; Groza, Adrienn; Welte, Cornelia (Radboud University, Netherlands)*
	Anaerobic Digestion As Pretreatment For Dairy Waste Composting: Operational Strategies And Microbial Dynamics *Gutiérrez, Lucía; Callejas, Cecilia; Passeggi, Mauricio; Borzacconi, Liliana; López, Iván (Facultad de Ingeniería (Universidad de la República), Uruguay)*	Application Of Alkaliphilic Desmodesmus Armatus For Integrated Algal Biomethane Biorefineries In Termpate Climates *Haider, Muhammad Nabeel; O'Higgins, Linda; Wall, David; Murphy, Jerry D.; Bose, Archishman (University College Cork, Ireland)*	ELSAR® Reactor: Passive Electro-Stimulation For Brewery Wastewater Treatment *Fernández-Domínguez, David; Mora-Cabrera, Karen; Duro, Sergio; Martín, Raul; Zamora, Patricia; Monsalvo, Victor Manuel; Rogalla, Frank (FCC Aqualia, Spain)*
11:00-11:30	***Coffee Poster Session***		

	Thursday 11/06		
	S5a **Adding value to (bio)gas**	**S5b** **Building biorefinery platforms: bioplastics**	**S5c** **Modelling, control and beyond #2**
11:30-13:00	Novel Compact Multichannel Reactor For Biogas Valorisation Via Ectoine Production *Torres-Franco, Andrés; Sampaio de Mello, Bruna; Vargas-Estrada, Laura; Botana, Nicolás; Alcántara, Daniel; Carmody, Miguel; Muñoz, Raúl (University of Valladolid, Spain)*	Evaluating The Anaerobic Digestion Of PLA And PHB For Volatile Fatty Acid Generation From Bioplastic Waste *Francis, Lydia; Nzeteu, Corine; Oflaherty, Vincent (University of Galway , Ireland)*	Unravelling Chemical And Microbial Features During Digester Foaming With FTIR Spectroscopy *Upoma, Bushra Parvin; Tait, Stephan; Krohn, Christian; Batstone, Damien (The University of Queensland, Australia)*
	Ectoines And Carotenoids Production From Biogas Using An Algal-methanotrophic Consortium: Process Performance And Metagenomic Analysis *Serna García, Rebecca; Lanzoni, Ysis; Garcia-Depraect, Octavio; Muñoz, Raul; Cantera, Sara (Universitat de València, Spain)*	No Time To Waste: Biorefining Of Bioplastic Waste Via Chemical And Microbial Recycling *Angelini, Stefania; Gallipoli, Agata; Gianico, Andrea; Angelini, Francesca; Sbicego, Michela; Montecchio, Daniele; Piemonte, Vincenzo; Braguglia, Camilla Maria (Water Research Institute - National Council of Research, Italy)*	Estimating The Active Biomass In Anaerobic Reactors Through A Mass Balance Approach *Da Silva Álvarez, Cristopher; Peces, Miriam; Perez-Esteban, Noemí; Volcke, Eveline I. P.; Dosta, Joan; Astals, Sergi (Ghent University, Belgium)*
	Optimisation Of A Monolith Multichannel Bioreactor For Methane Bioconversion Into Ectoine *Sampaio de Mello, Bruna; Zamora, Patricia; Monsalvo, Víctor; Rogalla, Frank; Tores-Franco, Andres Felipe; Muñoz, Raúl (Institute of Sustainable Processes/University of Valladolid, Spain)*	Development Of Bio-based Plastic Films And Assessment Of Their Biodegradability Under Anaerobic Digestion *André, Laura; Lefèvre, Cassandra; Sommerer, Alexandre; Léonard, Estelle; Fayeulle, Antoine; Ribeiro, Thierry; Kadri, Rana; Meenakshisundaram, Shruthi; Gallois, Nicolas; Jeux, Victorien (Institut Polytechnique Unilasalle, France)*	Anaerobic Digestion Modelling Upgrades For A Better VFA Prediction; Process Inhibitions And Thermodynamics Integration *Rovira Cal, Eric; Jaray-Valdehierro, Sofia; Sancho, Luis; Aymerich, Enrique; Fernández-Arévalo, Tamara (CEIT, Spain)*
	Pressurized Thermophilic CO2 Biomethanation Using Exogenous H2 And Anaerobic Centrate In A Biotrickling Filter *Morais Junior, Wilson G; Torrecilla del Rey, Alberto; Ferrari, Federico; Micó, María del Mar; Fdz-Polanco, María; Diaz, Israel (Institute of Sustainable Processes - Universidad de Valladolid, Spain)*	PBAT-based Compostable Bags Valorisation Via Anaerobic Co-Digestion: Reinforcing WWTPs As Energy Recovery Facilities *Lera Modino, María; Santonja Coloma, Marina; Ferrer Crespo, Juan Francisco; Serralta Sevilla, Joaquín; Martí Ortega, Nuria (Universitat de València, Spain)*	Microbial Hydrolysis Process Model Development And Calibration *Johnson, Thomas; Funk, Claire; Ohemeng-Ntiamoah, Juliet; Fairley-Wax, Maddy; Parry, Dave (Jacobs Engineering Group, United States)*
	Pilot-scale Biological Methanation Of Raw Biogas In An Integrated CSTR-TBR System With H2 Supplied By A PEM Electrolyzer *Xirostylidou, Aikaterini; Mitraka, Georgia-Christina; Gaspari, Maria; Kontogiannopoulos, Konstantinos. N.; , ; Zouboulis, Anastasios I.; Kougias, Panagiotis G. (Hellenic Agricultural Organization - DIMITRA, Greece)*	Microbial Recycling Of Biodegradable Plastics (TPS, PLA, PHA) Into Carboxylates Via Methane Arrested Anaerobic Digestion *Zeng, Weishen; Jin, Yong; Beckmans, Ralf; de Leeuw, Kasper; Strik, David (Wageningen University & Research, Netherlands)*	Predictive Modelling Of Pathogen Inactivation In Anaerobic Digesters *Fernández-Arévalo, Tamara; Jaray-Valdehierro, Sofia; Gomez, Jairo; Lopez, Andrea; Mosteo, Rosa; Aymerich, Enrique (CEIT, Spain)*
	Overcoming H2 Mass Transfer Limitations In Ex-situ CO2 Biomethanation With Custom-designed Membrane Biofilm Reactors *Lin, Shih-Hsuan; Kuntke, Philipp; de Smit, Sanne; Hamelers, Hubertus V.M.; Gagliano, Maria Cristina (Wetsus, Netherlands)*	Enhanced Polyhydroxyalkanoate Production Through Process Optimization In Sequencing Batch Reactors *Ríos Mejía, Alejandro; Robles Martínez, Ángel; Borrás Falomir, Luis; Ruano García, María Victoria (Universitat de València, Spain)*	Reliable VSR Prediction For Anaerobic Digestion: Leveraging 32 Years Of Full-scale Data *Picard, Antoine; Trap, Danielle; Batstone, Damien; Moscoviz, Roman; Haddad, Mathieu (SUEZ, France)*
13:00-14:00	*Lunch*		
14:00-14:30	***Coffee Poster Session***		

	Thursday 11/06		
	S6a **Toward Enhanced Process Sustainability**	**S6b** **Building biorefinery platforms: carboxylates**	**S6c** **Anaerobic membrane bioreactors**
14:30-16:30	**Keynote: From Sludge Treatment to Energy-Positive Utilities: Advancing Biogas Production in Wastewater Infrastructure** *Mateo Pastur Romay - Cetaqua, Veolia (Spain)*	**Keynote: Bioprocess Engineering for Carboxylate Production: bridging experiments and mechanistic modeling** *Assoc. Prof. Marta Carballa - University of Santiago de Compostela (Spain)*	**Keynote: Innovations toward sustainable anaerobic membrane bioreactor centered process for resource recovery, permeate quality and fouling controls** *Prof. Jeonghwan Kim - Inha University (Republic of Korea)*
	Unlocking The Potential Of Fe Chemically Enhanced Primary Treatment Sludge In Anaerobic Digestion: Cage-Breaking Effect *Yu, Bohan; Solon, Kimberly; Cainglet, Annaliza; Liu, Jianyong; Volcke, Eveline (Ghent University, Belgium)*	In Situ Caproic Acid Recovery From Mixed-culture Fermentation: From Synthetic Medium To Real Fermentation Broth *Rouhipour, Seyed Behzad; Gutowska, Natalia; Wint, Nay Yee; Duber, Anna; Zagrodnik, Roman; Lężyk, Mateusz; Oleskowicz-Popiel, Piotr (Poznan University Of Technology, Poland)*	Strategic Intermittent Operation For Energy-positive E-AFMBR *Kim, Minseok; Chen, Yue; Gyeongjune, Lee; Wu, Di; Kim, Jeonghwan (Inha University, Korea, Republic of)*
	Enhanced Anaerobic Digestion By Coupling Bioelectrochemical Systems: Process Performance And Sludge Dewaterability *Fernández-Domínguez, David; Mora-Cabrera, Karen; Zamora, Patricia; Monsalvo, Victor Manuel; Rogalla, Frank (FCC Aqualia, Spain)*	Influence Of Feeding Strategy And Biomass Retention On Medium-chain Carboxylates Production From Lactate-rich Streams *García-Gago, Sara ; Mauricio-iglesias, Miguel; Regueira, Alberte (CRETUS (Universidade de Santiago de Compostela), Spain)*	AnMBRs Coupled With Advanced Oxidation For Removal Of Antibiotics And Membrane Fouling Control *Xiao, Roger Yeyuan (Shantou University, China)*
	Resilience Of IntensiCarbTM Compared To A Conventional Digester Under Increasing Solids Concentration *Nguyen, Van Than; Abdelrahman, Amr; Santoro, Domenico; Sheculski, Chris; Jang, Eunkyung; Kakar, Farokh; Al-Omari, Ahmed; Muller, Chris; Walton, John; Nakhla, George (University of Western Ontario, Canada)*	Enhanced Carboxylic Acids Conversion From Waste Activated Sludge Fermentation Triggered By Syntrophic Consortia *Zhou, Aijuan; Fan, Yaxin; Liu, Hongyan; Yue, Xiuping (Taiyuan University of Technology, China)*	AnMBR And PN/AMxX Demonstration Of Co-treatment Of Urban Wastewater And OFMSW For Resource Recovery *Elvira , Marta (Aqualia, Spain)*
	ENEDAR: Enhancing The Sustainability Of Wastewater Treatment Plants Through Sludge Valorization *Magdalena, Jose Antonio; Villar, Paula; Bernárdez, Carlos; Muñoz, Raúl; Hoyos, Edwin Gilbert; Escudero, Rubén; Monreal, Iñigo; Mata, Uxía; Blanco, Álex; Zuriaga, Elena (Fomento Valencia Medioambiente - Nealis, Spain)*	Two-stage Fermentation Strategy Led To Efficient And Selective Propionate Production From Food Waste With Mixed Cultures *Bourgeois, Mathilde; Braga-Nan, Lucia; Escudié, Renaud; Bernet, Nicolas; Trably, Eric (INRAE, France)*	Biogenic Sulfide Production In An Anaerobic Membrane Bioreactor For Selective Recovery Of Metals From Acid Mine Drainage *Fernández Rojo, Lidia; Ahumada-Vargas, Bárbara; Miró, Roger; Echevarría, Carlos; Pastur, Mateo; Arnaldos, Marina; Castro-Barros, Celia María; Martínez-Santos, Tamara; Sevilla, Manuel (Cetaqua - Water Technology Centre, Spain)*
	Capture And Digestion: An Integrated Process For Redirecting Mass Flows Toward Energy-positive Sewage Treatment *Rong, Chao; Zhang, Tong; Yuan, Zhiguo (City University of Hong Kong , Hong Kong, China)*	Anaerobic Chain Elongation Upcycles Vinasse From Food-Waste-Derived Ethanol Into Carboxylic Acids In A Biorefinery Cascade *Lima, Fabrício; Almeida, Felipe; Abreu, Íthalo; P. P. Gomes, Devson; Victor, João L.; Santos, Thaise; Florêncio, Lourdinha; T. Kato, Mario; Motteran, Fabrício; Dutra, Emmanuel; Gavazza, Savia; Menezes, Osmar (Federal University of Pernambuco, Brazil)*	Energy Recovery Enhancement In AnMBRs Using Thermal Sludge Pretreatment And Dairy Industry Wastewater Co-Digestion *Cicekalan, Busra; Cavdar, Beril; Shitreh, Shayan; Canbulut, Nazlican; Yuksekdag, Ayse; Ozdemir, Ecem; Musluoglu, Ahmet; Guven, Huseyin; Koyuncu, Ismail; Ersahin, Mustafa Evren; Ozgun, Hale (Istanbul Technical University, Türkiye)*
	Comparative Mass, Energy And Economic Balances For Scenarios Combining Thermal Hydrolysis And Anaerobic Digestion *Pérez Elvira, Sara ; Fdz-Polanco, María; Fdz-Polanco, Diego (University of Valladolid, Spain)*	Integrated Anaerobic Biorefinery For Urban Waste: Semi-Continuous Caproate Production, Recovery And Residue Valorization *Sbicego, Michela; Angelini, Francesca; Angelini, Stefania; Gallipoli, Agata; Gianico, Andrea; Braguglia, Camilla M. (Water Reseach Institute, Italy)*	Anaerobic Membrane Bioreactor For Water, Nutrients And Energy Recovery In An Urban-industrial Symbiotic Context *Christy, Noah; Nyeggen, Anders; Stoumpou, Vasileia; Björkqvist, Sara; Rasmus Anderson, Henrik; Martins Silva, Paulo; Trapp, Stefan; Sereth Larsen, Daniel; Valverde-Pérez, Borja (Danish Technical University, Denmark)*
16:30-16:40	*Refresh break*		

	Thursday 11/06		
	Flash2a **Flash: Adding value to liquid streams and digestate**	**Flash2b** **Flash: Innovative processes**	**Flash2c** **Flash: Modelling and monitoring**
16:40-17:20	From Sanitation To Resource Recovery: Operational Performance Of Decentralized Anaerobic Treatment Systems *Mbuyu, Mbole (BORDA, South Africa)*	Performance Of Novel Biomethanation System For Utilizing Existing Digesters In Wastewater Treatment Plants *Akimoto, Shinya; Tsubota, Jun; Hidaka, Taira; Fujiwara, Taku (Osaka Gas Co., Ltd., Japan)*	Mechanistic Evaluation Of Bioelectrochemical Sulfur Oxidation In Coupled Anaerobic Digestion-Microbial Electrolysis Cell *park, chaeyeon; Jeong, Yeonju; Baek, Gahyun (Sungkyunkwan university, Korea, Republic of)*
	Comparative Performance Of Temperature-phased Anaerobic Digestion And Thermophilic Digestion For Advanced Sludge Treatment *Garcia Perez, Jorge; Tena, Miriam; Rivadulla, Matías; Mora, Karen; Zamora, Patricia; Monsalvo, Víctor; Rogalla, Frank (Aqualia , Spain)*	Effects Of Non-Thermal Microwave Irradiation On Anaerobic Digestion *Togari, Taketo; Hidaka, Taira; Matsuura, Norihisa; Ishihara, Yoshitake (Tottori University of Environmental Studies, Japan)*	H2-enhanced Sugars Fermentation: Insights From Metabolic Bioenergetic Modelling And Experimental Validation *Catenacci, Arianna; Mauricio-Iglesias, Miguel; Balboa, Sabela; Ficara, Elena; Turolla, Andrea; Malpei, Francesca; Lema, Juan Manuel; Regueira, Alberte (Politecnico di Milano, Italy)*
	Thermophilic Anaerobic Membrane Bioreactor For Valorisation Of The Liquid Digestate Of The Municipal Solid Waste *Ramos, Carlos; Sielfeld, Caroline; Farràs, Queralt; Gimenez, Antonio; Riu, Marc; Torrell, Helena; Bosch, Carme; Casas, Sandra; Martinez, Xavier (Universitat Politècnica de*	A Novel Ex-Situ Biomethanation Integrating CO2 Bubble Dissolution And H2-Based Membrane Biofilm Reactor *Tanaka, Hideharu; Yamada, Yuji; Shoji, Tadashi; Nittami, Tadashi (Sanki Engineering Co., Ltd., Japan)*	How Digesters Lose Capacity: Surface Stratification And Fugitive Methane *Willis, John; Dixon, Doug; Fiorino, Dante; Muller, Chris; Schnaars, Ken; Schutt, Andrew (WEF Member Account, United States)*
	Adaptation Strategies For Anaerobic Digestion Of Saline Sludge *Stoumpou, Vasileia; Burchietti, Giulia; Postacchini, Pietro; Tsigkou, Konstantina; Angelidaki, Irini; Valverde-Pérez, Borja (DTU Sustain, Denmark)*	Boosting Chain Elongation For Medium-Chain Carboxylic Acids Recovery With Magnetite Through Fungi--Bacteria Synergy *Xu, Xianbao; Cheng, Shuanglan; Li, Xiang; Zhou, Aijuan; Makinia, Jacek (Taiyuan University of Technology, China)*	Initial Redox Potential As A Key Factor In Cheese Whey Dark Fermentation *El ABYAD, Sara; GUEZ, Jean-Sebastien; VIGNIGBE, Emeric; GEREMY, François; COTIGNY, Lionel; KAPLON, Florent; DISCHAMP, Arnauld; LARROCHE, Christian; VIAL, Christophe; TAHA, Samir (Université Clermont Auvergne, CNRS, France)*
	Nutrient Recovery From Psychrophilic Digestate: Batch And Continuous Operation For Scalable Andean Applications *Uribe Muñoz, Maria; Castro Molano, Liliana; Escalante Hernandez, Humberto; Gonzales Morales, Carolina (Universidad Industrial de Santander, Colombia)*	Microalgae Biorefinery For Pigments, Biostimulants And Biogas Recovery In A Cascade Approach *Sáenz Ceniceros, Ana; Rueda Hernández, Estel; Bermejo-Román, Ruperto; Gómez-Serrano, Cintia; González-Lopez, Cynthia; Ferrer, Ivet (Universitat Politècnica de Catalunya-BarcelonaTech, Spain)*	Quantifying Methane Emissions From Open Digestate Storage Tanks Using Laboratory And Full-scale Measurements *Winkler, Manuel; Van Looveren, Lieselotte; Engler, Nils (DBFZ Deutsches Biomasseforschungszentrum gGmbH, Germany)*
	Enhancing Mesophilic Anaerobic Digestion With Alkaline-Thermal And Thermal-Enzymatic Disintegration Under PP MPs *Sanin, F. Dilek; Altuntaş, Oğuzhan (Middle East Technical University, Türkiye)*	Temperature-phased Anaerobic Digestion Vs Mesophilic Process For Thermo-hydrolyzed Residual Municipal Solid Waste *Muñoz-Muñoz, Alexander; Hernandez Garcia, Juan Jose; Diaz, Elena; Mohedano, Angel F.; de la Rubia, Angeles (Universidad Autonoma de Madri9d, Spain)*	Hybrid Models For The Anaerobic Digestion Process *Wollschläger, Tim; Römer, Tim; Herrmann, Christiane; Focks, Andreas (Osnabrück University, Germany)*
	Full-Scale Enhancement Of Anaerobic Digestion With The Microbial Hydrolysis Process *Fairley-Wax, Madeleine; Parry, Dave; Cope, Stephanie; Nielsen, Per Henrik (Jacobs Engineering Group, United States)*	Deciphering Acetoclastic And Hydrogenotrophic Pathway Shifts In HOLAnD® Process Treating Food Waste And Sewage Sludge *Srinivasan, Hemapriya; Palani, Sankar Ganesh (BITS Pilani, Hyderabad Campus, India)*	Multi-objective Optimization Of Anaerobic Digestion: Biogas Production & Digestate Management Under Seasonal Variations *Ahmed, Wasim; Tremier, Anne; Girault, Romain; Thuriès, Laurent; Rakotomalala, Christiane; Jimenez, Julie; Steyer, Jean- Philippe (INRAE, LBE, France)*
	The Metabolism Of Methanosarcina Sp. Shapes Process Performances In Butyrate-Degrading Anaerobic Digestion Consortia *Mahieux, Margot; Péguilhan, Raphaëlle; Mark Jensen, Marlene; Angelidaki, Irini (Denmark Technical University, Denmark)*	Enhancing Anaerobic Digestion Of Lignocellulosic Biomass Via Natural Deep Eutectic Solvent Pretreatment *Bae, Suye; Ha, Geon-Soo; Lee, Sumin; Jeong, Daeun; Choi, Yunjeong; Baek, Gahyun (Sungkyunkwan University, Korea, Republic of)*	Start-up And Operation Of Sulphidogenic Reactor With Methanogenic Seed Material Using COD/SO42- Ratio And H2S As Control *LYU, XINGZHOU; Lindeboom, Ralph; Shang, Ran; Buijs, Joran; van Lier, Jules (Delft University of Technology, Netherlands)*
17:20-18:20	***Beer&Tapas Poster Session***		

Friday 12/06

8:00-8:30	Registration (*Palau de Congressos de València*)		
8:30-9:15	**Plenary speech: Nature-inspired microbiome engineering to retool anaerobic digestion** *Prof. Lutgarde Raskin - Yale University (USA)*		
	auditorium 1	*auditorium 2*	*auditorium 3*
09:15-11:00	**S7a** **Microbial dynamics and interactions #1**	**S7b** **Building biorefinery platforms: phototrophs**	**S7c** **Tracking contaminants of special concern**
	Quorum-Sensing-mediated Biofilm Formation In Anaerobic Microbial Communities *Grimalt-Alemany, Antonio; Giangeri, Ginevra; Goonesekera, Estelle; Péguilhan, Raphaëlle; Straumøy, Ingvild; Angelidaki, Irini (Technical University of Denmark, Denmark)*	Piggery Wastewater Treatment By Purple Phototrophic Bacteria *Rojas Romero, Leonel; Garcia Depraect, Octavio; González Sánchez, Armando; Muñoz Torre, Raúl (University of Valladolid, Spain)*	Chloramphenicol-Driven Perturbation Of Methanogenic Metabolism And Microbial Network In Swine Manure Anaerobic Digestion *Lee, Jung Sup; Yun, Yeo Myeong; Ahn, Byung Kyu; Jeon, Yun Ju; Kim, Eun Sol; Ahn, Ji Hye (Chungbuk National University, Korea, Republic of)*
	Comammox Nitrospira And Quorum-sensing Genes Associated With Nitrification In A Down-flow Hanging Sponge Reactor *Kabasawa, Sota; Watari, Takahiro; Hirakata, Yuga; Kawakami, Shuji; Okubo, Tsutomu; Hatamoto, Masashi; Yamaguchi, Takashi (Nagaoka University of Technology, Japan)*	Valorization Of The Liquid Fraction Of Digestate Using Purple Phototrophic Bacteria (PPB) For Biofertilizer Production *Atayupanqui Dueñas, Rosa; Barat, Ramón; González Camejo, Josué (BETA Technological Center, Central University of Catalunya, Spain)*	Hidden Risks In Reclaimed Water From Biorefineries: Shotgun Metagenomic Insights Into Antibiotic Resistance And Virulence Genes *Alvarez Fraga, Laura; Bru-Adan, Valérie; Patureau, Dominique (INRAE-LBE, France)*
	Chain-length-dependent Degradation Pathways And Microbial Responses During Anaerobic Digestion Of Saturated Fatty Acids *Qin, Hao-Jie; Qin, Yu; Li, Yu-You (Tohoku University, Japan)*	Turning Dark Co-fermentation By-products Into Single Cell Protein With Mixed Culture Purple Phototrophic Bacteria *Montoya Rosales, José de Jesús; Muñoz, Raúl; Puyol, Daniel; Rojas Romero, Leonel; García Depraect, Octavio (Institute of Sustainable Processes, Spain)*	Effect Of Thermal Hydrolysis On Target Organic Micropollutants In Waste Activated Sludge *Deiana, Andrea; van Lier, Jules; de Kreuk, Merle (Delft University of Technology, Netherlands)*
	Metatranscriptomics Reveals System-Specific Viral Adaptive Strategies And Prokaryotic Defense Trade-offs Across AD *Li, Xiang; Gu, Xia; Yu, Pingfeng (Donghua University, China)*	Enhancing Nutritional Value Of Single-cell Protein From Purple Phototrophic Bacteria By Feeding Gaseous Fatty Acids *Pezzuto, Marco; Lo Coco, Riccardo; Frison, Nicola (University of Verona, Italy)*	Enhanced Carbamazepine Degradation By Proline-rich Substrates During Semi-continuous Anaerobic Digestion *Guo, Yutong; Deng, Zhe; Askari, Najmeh; Smets, Ilse; Appels, Lise (KU Leuven, Belgium)*
	Exploring Anaerobic Granules As Model Systems: Homogeneity, Heterogeneity, And Ecological Insights In Microbial Biofilms *Van Landuyt, Josefien; Machiels, Marie-Laure; Depaz, Lena; Boon, Nico; De Vrieze, Jo (Ghent University, Belgium)*	Continuous Microbial Protein Production From H2 And CO2 By Purple Non-sulphur Bacteria *Morya, Raj; Flores-Salgado, Gratia Deii; Steyer, Jean-Philippe; Guizard, Guillaume; Escudié, Renaud; Capson-Tojo, Gabriel (INRAE, France)*	Biohydrogen, Pharmaceuticals And ARGs: Temperature Effects During Co-fermentation Of Swine Slurry And Olive Mill Waste *Martín Medrano, Cinta; Espinosa, José Manuel; Cert, Rosa; Egea, Roberto; Ramos, Víctor Manuel; González Fermoso, Fernando; Pintado, Marina; Zahedi, Soraya (CSIC, Spain)*
	Ecophysiology Of Anaerobic Granules Across Distinct Size Fractions: Size Matters *Tejero, Gabriel; Trego, Anna; O'Flaherty, Vincent; Zeeshan-Ijaz, Umer (National University of Galway, Ireland)*	Biogas Valorisation To Ectoine Using A Marine Methanotroph-Microalgae Co-culture Under Different Operational Modes *Ruiz Ruiz, Patricia; Mohedano Caballero, Patricia; De Vrieze, Jo (Ghent University, Belgium)*	Influence Of Type Of Sludge On The Fate Of Pharmaceuticals And Antibiotic Resistance Genes During Anaerobic Digestion *Martín-Medrano, Cinta; Gonzalez-Gil, Lorena; Balboa, Sabela; Lema, Juan; Carballa, Marta (Defense University Center at the Spanish Naval Academy, Spain)*
	Uncovering The Players Of Acetate Metabolism Within Syngas Biomethanation Processes *Cheng, George; Gabler, Florian; Bongcam Rudloff, Erik; Schnürer, Anna (Swedish University of Agricultural Sciences, Sweden)*	Green Biorefinery Side Stream Holds Potential For Value-added Products *Frank, Luna; Nzeteu, Corine; O'Flaherty, Vincent (University of Galway, Ireland)*	Fate Of Veterinary Antibiotics And Metabolites During Anaerobic Digestion Of Manure: Full-Scale And Lab Verification *Uzun, Omer; Ince, Bahar; Ince, Orhan (Bogazici University, Türkiye)*
11:00-11:30	***Coffee Poster Session***		

	Friday 12/06		
	S8a **Building biorefinery platforms**	**S8b** **Innovative processes**	**S8c** **Microbial dynamics and interactions #2**
11:30-13:00	Harnessing Biofilm Potential For Medium Chain Carboxylic Acid Production With Innovative Bioreactor And Support Material *Shrestha, Shilva; Nuhu, Mujaheed; Lyu, Xuejiao (Johns Hopkins University, United States)*	From Hygienisation To Upgrading: Zero-Valent Iron Improves Methane Recovery During 70 °C Pretreatment Of Food Waste *Vyrides, Ioannis (Cyprus University Of Technology, Cyprus)*	Integrating Transcriptomic Data With Metabolic Model Unravels The Electron Transfer Mechanisms Of Methanosarcina Barkeri *TANG, Wentao; Chen, Guanghao; Hao, Tianwei (University of Macau, Macau)*
	Anaerobic Biorefinery Platform Converting Urban Biowaste Into Marketable Products And Bioenergy: A Techno-economic Study *Angelini, Francesca; Sbicego, Michela; Gallipoli, Agata; Angelini, Stefania; Sagnotti, Giulia; Frugis, Alessandro; Braguglia, Camilla Maria; Gianico, Andrea (CNR-IRSA, Italy)*	Insights Into The Effect Of Nitrate Photolysis On Carboxylic Acids Production From Waste Activated Sludge Fermentation *Liu, Zhihong; Guo, Zhengtong; Li, Dengfei; Yue, Xiuping; Zhou, Aijuan (Taiyuan University of Technology, China)*	Continuous Photofermentative Valorization Of HTC Process Water Using An Engineered H?-overproducing R. Capsulatus Strain *Barahona, Emma; Valverde-Cañas, Angel; Cuesta-Belvis, Daniel; González-Vilaró, Martina; Cicimov, Viktor; de Nicolás, Amanda P.; Díez, Mario P.; Díaz, Elena; de la Rubia, María Ángeles; Mohedano, Ángel F; Martínez, Fernando; Puyol, Daniel (Rey Juan Carlos University, Spain)*
	Food Waste Pretreatments Shape Product Profiles And Yields During Anaerobic Fermentation *Prats-Masegosa, Abril; Carrére, Hélène; Capson-Tojo, Gabriel; Trably, Eric; Robles Martínez, Ángel; Ruano García, María Victoria (Universitat de València, Spain)*	A Promising Alternative For The Valorisation Of Permeate Using Two-stage AD And Autochthonous Microorganisms *Villa Montoya , Alejandra ; Nzeteu, Corine; O'Connor, Sandra; Bartle, Andrew; O'Flaherty, Vincent (University of Galway, Ireland)*	Uncovering Virus-host Interactions In A Full-scale Anaerobic Digester Using Multi-substrate DNA Stable Isotope Probing *Garcia Roche, Alma; Waring, Kate; Madill, Max; Friedline, Skyler; Ziels, Ryan (The University of British Columbia, Canada)*
	Enhanced Volatile Fatty Acid Production Via Pilot Scale Biorefining Of Blast Furnace Gas Using Membrane Extraction *Jones, Rhys; Fernandez Feito, Rodrigo; Jordan, Jacob; Massanet Nicolau, Jaime; Michie, Iain; Lloyd, Gareth; Dinsdale, Richard; Guwy, Alan (University of South Wales, United Kingdom)*	Exploring Anaerobic Digestion Using Digestate-derived Biochar: Evaluation As A Biocatalyst And A Biogas H2S Adsorbent *Demichelis, Francesca; Tommasi, Tonia; Fino, Debora (Politecnico di Torino Facoltà di Ingegneria: Politecnico di Torino, Italy)*	DeepOmics, A Data Platform To Promote FAIR Meta-omics And Process Data In The Field Of Environmental Biotechnology *Bize, Ariane; Gramusset, Aurélie; Fernandez, Emilie; Suarez, Carlos; Corrales, David Camilo; Chapleur, Olivier; Dabert, Patrick; Fayolle, Yannick; Bouchez, Théodore; Le Quéméner, Elie; Raidelet, Nicolas (INRAE, France)*
	A Biorefinery Concept For Wastewater Treatment Infrastructures To Convert CO2 Into Carboxylic Acids *Gehring, Tito; Babu, Allan; Corbalán, Mario; Rad, Ramineh; Sales, Marcos; Alex, Jens; Ixmann, Christian; Siegmung, Daniel; Lübken, Manfred; Apfel, Ulf-Peter; Wichern, Marc (Ruhr University Bochum, Germany)*	Biochar-enhanced Anaerobic Digestion Of Aquaculture Sludge: Comparing Mono- And Co-digestion In Fresh And Marine Waters *Senol, Abdullah Bugra; Solli, Linn; Morken, John; Kocatürk Schumacher, Nazli Pelin (Norwegian University of Life Sciences, Norway)*	Response Mechanisms Of Microbial Communities To Salt Stress In Anaerobic Digestion Of Food Waste *Gao, Qingwei; Li, Lili; Zhao, Qingliang (Harbin Institute of Technology, China)*
	Native Community And Inoculum Dynamics As Key Drivers Of VFA Selectivity In Green Biorefinery Pressed Cake Processing *-, Pooja; Nzeteu, Corine; McAuliffe, Olivia; O' Flaherty, Vincent (University of Galway, Ireland)*	Hydrogen-adapted Microbial Consortium Stabilizes H2 And Organic Matter Conversion To CH4 During In Situ Biomethation *Braga-Nan, Lucia; Mahieux, Margot; Aemig, Quentin; Richard, Charlotte; Delgenes, Jean-Philippe; Juge, Marine; Trably, Eric; Escudié, Renaud (INRAE, LBE, France)*	Polyvalent Bacteriophages To Combat Antibiotic Resistance Spread In Anaerobic Membrane Bioreactor (AnMBR) Effluents *Tomlinson, Ashley; Ramadan, Lama; Harb, Moustapha (New Mexico Institute of Mining and Technology, United States)*
13:00-14:00	*Lunch & Meet Your Mentors*		
14:00-14:30	***Coffee Poster Session***		

Friday 12/06

	S9a **The Valencian Ecosystem**	S9b **Mainstream treatment**	S9c **Modelling, control and beyond #3**
14:30-16:30	**Keynote: The bioeconomy in the Valencian Community: circular economy, bioenergy, and new products** *TBC*	**Keynote: Challenges of Anaerobic Wastewater Treatment in Tropical Countries** *Prof. Lourdinha Florencio - Federal University of Pernambuco (Brazil)*	**Keynote: Diagnosis of full-scale Anaerobic digesters using Advanced Modelling and experimental techniques** *PhD Javier Climent - HYDRENS (Spain)*
	Evaluating The Effect Of Thermal Hydrolysis On The Sludge Viscosity And Mixing At Full-scale Anaerobic Digester Tanks *Arnau Notari, Rosario; Mondragón, Rosa; Fernández-Polanco, Diego; Pérez-Elvira, Sara Isabel; Garvi, María Dolores; Peña, Javier; Sánchez, Alejandro; Toro, Enrique; Baquerizo, Enrique; Climent, Javier (HYDRENS, Spain)*	Partial Nitritation-anammox Applied To Simulated Anaerobically Pre-treated Domestic Sewage At 25°C *van Lier, Julius (Jules); Giglio, Guilherme; Pavez Jara, Javier; Peng, Zhe; Damianovic, Marcia (Delft University of Technology (TUD), Netherlands)*	Swine Carcass And Manure Co-digestion: Defining Safe Loading Windows With ANN-based Methane Yield Prediction *Rajagopal, Rajinikanth; Aikeremu, Aimaiti; Goyette, Bernard (Agriculture and Agri-Food Canada (AAFC), Canada)*
	Assessing Extended Shutdown On Anoxic Desulphurisation And Start-up Of Intensified Wetland For Centrate Nitrification *Hervás-Martínez, Rubén; Oliver Rajadel, Nuria; Ruiz Forner, Laura; Rubira Fernandez, Raul; Martinez-Soria, Vicente; Sempere Nàcher, Feliu (Global Omnium Medioambiente S.L., Spain)*	Performance Gaps And Contractual Risks Associated With Full-scale UASB Reactors In Brazilian Wastewater Treatment Plants *Magalhães, Fernando; Paulo, Paula (IPH/UFRGS, Brazil)*	Compartmentalization Strategy For CFD--Kinetic Integration: Effects Of Compartment Number And Dead-Zone Redefinition In Anaerobic Digesters *Zorrilla, Fernando; Donoso-Bravo, Andrés; Sadino-Riquelme, M; Hansen, Felipe (Modela, Chile)*
	Effect Of Nano Zerovalent Iron During Olive Mill Wastewater And Pig Slurry Two-Temperature Phase Anaerobic Co-digestion *Negro, Patricia; Silvestre, Gracia; Sifre, Alba; Martín, Maria; Zuriaga, Elena (SITRA, Spain)*	Electro-chemical Strategy For P Recovery From Municipal Wastewater *Meng, Xinran; Chen, Sijia; Liu, Ziwei; Huang, Xia (Tsinghua University, China)*	Biokinetic Modelling Of Ex-situ Biomethanation In Trickle-bed Reactors *Taha, Ahmed; Ashraf, Muhammad Tahir; Steffensen, Emil de Bekker; Yde, Lars; Rodríguez, Jorge (Khalifa University, United Arab Emirates)*
	Biotechnological Strategies For The Valorisation Of Lignocellulosic Waste Through Pretreatment And Co-Digestion In Advanced Anaerobic Digestion System *Fernández Blanco, Ana ; Gómez-Pérez, Paz (GENIA BIOENERGY, Spain)*	Potential Of Self-forming Dynamic Membranes To Improve Emerging Microbial Contaminant Safety In Anaerobic MBRs (AnMBRs) *Ramadan, Lama; Baloun, Kirk; Harb, Moustapha (New Mexico Institute of Mining and Technology, United States)*	A Practical Approach To Calibrating Full-scale Anaerobic Digester Models *Solon, Kimberly; Filali, Ahlem; Volcke, Eveline; Gillot, Sylvie (Ghent University, Belgium)*
	Sustainability In Action: 3 Years Of Operating Experience With A Full-scale Thermal Hydrolysis Plant At Valencia´s WWTP *Fernandez-Polanco, Diego; Albors, Enrique; López, María; Jimenez, Ángel; Saúco, Lidia; Aagesen, Erik (teCH4+, Spain)*	Sewer Mining With Anaerobic MBR To Mitigate Drought And Dependence On Industrial Fertilisers *García, Laura; Elvira, Marta; Serna, Rebecca; Morales, Nicolas; Greses, Silvia; Borrás, Luis; Bouzas, Alberto; Rogalla, Frank (University of Valencia, Spain)*	Biorefinery Modelling Platform For Liquid Biofuel Production *Junicke, Helena; Flores-Alsina, Xavier; Gernaey, Krist (Technical University of Denmark, Denmark)*
	Hydrothermal Carbonization Of Sewage Sludge And Digestates. Industrial Solution And Market Applications *Hernández Latorre, María Luisa; Hitzl, Martin; Oliver-Tomás, Borja; Navarro-Sirera, Vicente (INGELIA SL, Spain)*	Low Temperature Anaerobic Digestion Of Long Chain Fatty Acids-containing Wastewater With Granulated Activated Carbon *Liu, Yuchen; O'Connor, Sandra; Trego, Anna; Ijaz, Umer; O'Flaherty, Vincent (University of Galway, Ireland)*	Real-Time Speciated VFA Monitoring Enables Higher Biomethane Yields And Stable Full-Scale Anaerobic Digestion *Fernandez Feito, Rodrigo; Jones, Rhys; Massanet Nicolau, Jaime; Guwy, Alan (University of South Wales, United Kingdom)*
16:30-16:40	*Refresh break*		
16:40-17:30	**Closing Ceremony** Poster and Oral Presentation Awards Lettinga Award IWA AD SG Early Career and Mid-Career Awards AD20 Location Announcement		
20:00-24:00	**Gala Event (*Veles e Vents*)**		

Saturday 13/06

10:30-17:30	**Technical and Social Tour**