Oral Programme

Sunday 16th September 2018

17:00-19:00	**Registration** | **Room:** Hall Tramuntana
18:00-19:30	**Welcome Reception & Special Launch Event & Poster Session 1** | Room: Tramuntana 1

Monday 17th September 2018

08:00	**Registration** | **Room:** Hall Tramuntana	
08:30-10:00	**Plenary Session** | **Room:** Tramuntana 2&3 **Session Chair:** Ashok Pandey, CSIR-Indian Institute of Toxicology Research, Lucknow, India	
08:30-08:40	**Welcome Address 1: Ashok Pandey and Deepak Pant** | **Room:** Tramuntana 2&3	
08:40-09:20	**[PL01] Bioengineering as tools for upcycling of wastes and residues in an bioeconomy approach** I. Angelidaki, *Danmarks Tekniske Universitet, Denmark*	
09:20-10:00	**[PL02] Resource recovery and zero wastes: A Swedish perspective** M.J. Taherzadeh, *University of Borå, Sweden*	
10:00-10:30	**Coffee Break & Poster Session 1** | Room: Tramuntana 1	
10:30-12:00	**Session IA: Biomass Fractionation – Pretreatment Processes and Technologies** **Session Chair:** Christian Larroche, *Universite Lermont Auvergne, Clermont Ferrand, France* **Room:** Tramuntana 2&3	**Session IB: Industrial Bioprocessing for Biofuels** **Session Chair:** Claude-Gilles Dussap, *Universite Clermont Auvergne, Clermont Ferrand, France* **Room:** Garbi
10:30-11:00	**[INV01] Innovative lignocellulosic biomass deconstruction technologies** R. Ruan, *University of Minnesota, USA*	**[INV02] How to get through scientific and technological challenges of industrial biotechnology success on advanced biofuel production?** C.M. Jouve, *LISBP - INSA de Toulouse, France*
11:00-11:15	**[O1.1A] homogeneous catalytic acetylation of cellulose using ionic liquids** Z.H. Xi*, J. Jiang, L. Zhao, *East China University of Science and Technology, China*	**[O1.1B] Effects of Salinity on the water activity of marine microalgae Nannochloropsis sp: A Molecular Dynamics Study for Dewatering Process** R. Manrique, K.D. Aguilar, J.L. Moreno, A.R. Villagracia, M. David, N. Arboleda Jr, A. Ubando, A. Culaba*, *De La Salle University, The Philippines*
11:15-11:30	**[O1.2A] The influence of hydrothermal pre-treatment on conversion of microalgae to liquid biofuels** I. Razaq*, A.B. Ross, *University of Leeds, UK*	**[O5.3B] Repeated-batch process performance and microbial community analysis for lipid production by microbial consortium** Y. Louhasakul*[1,2], B. Cheirsilp[1], L. Treu[3], P.G. Kougias[3], I. Angelidaki[3], *[1]Prince of Songkla University, Thailand, [2]Yala Rajabhat University, Thailand, [3]Technical University of Denmark, Denmark*
11:30-11:45	**[O1.3A] Effect of various pretreatments on the composition and hydrolysis of spent coffee waste** R. Ravindran*, A.K. Jaiswal, *School of Food Science and Environmental Health, DIT, Ireland*	**[O1.3B] Production of hydrogen with a degenerate mutant of *Clostridium acetobutylicum*** K. Guerrero*, I. Paredes, J. Quinteros, S. Mau, R. Conejeros, J.C. Gentina, G. Aroca, *Pontificia Universidad Católica de Valparaíso, Chile*
11:45-12:00	**[O1.4A] Experimental investigation for torrefaction of Miscanthus on micro-scale and lab-scale reactor under various conditions** P. Kamble*[1], S. Nirgudkar[1], A. Mishra[1], I. Watson[1], Z. Khan[2], *[1]University Of Glasgow, UK, [2]COMSATS Institute of Information Technology, Pakistan*	**[O1.4B] Biofuels production from waste animal fats: Investigation on conversion treatments with a limited influence on the materials' initial physico-chemical properties** E. Rosson*[1], P. Sgarbossa[1], F. Pedrielli[2], M. Mozzon[1], R. Bertani[1], *[1]University of Padova, Italy, [2]University of Ferrara, Italy*
12:00-13:30	**Lunch** | Restaurant	
12:30-13:30	**Poster Session 2** | Room: Tramuntana 1	
13:30-15:00	**Session 2A: Thermo-Chemical Processing of Biomass** **Session Chair:** Roger Ruan, *University of Minnesota, St Paul, USA* **Room:** Tramuntana 2&3	**Session 2B: Algal Biorefinery** **Session Chair:** Irini Angelidaki, *Danmarks Tekniske Universitet, Lyngby, Denmark* **Room:** Garbi

13:30-13:45	**[O2.5A] Waste to energy with plasma gasification** A.M. Abdelkarim*[1], M.M. Mostafa[1], M.E. Mansour[1], [1]*Omdurman Islamic University, Sudan,* [2]*Karry University, Sudan*	**[INV04] Photobioreactor design and scale-up** C.G. Dussap, *Universite Clermont Auvergne, France*
13:45-14:00	**[O2.6A] Thermogravimetric studies, characterization and pyrolysis of soybean hulls** J.L. Toro Trochez, E.S. Carrillo Pedraza*, *Universidad Autónoma de Nuevo Léon, UANL, Facultad de Ciencias Químicas, Mexico*	
14:00-14:15	**[O2.1A] One-pot conversion of biomass-derived lignin into value-added compounds via in-situ generated hydrogen** Z. Chen*, M. Millan, *Imperial College London, UK*	**[O2.1B] CO_2 recovery with enhanced *Arthrospira platensis* productivity by gas-permeating bag photobioreactor** M. Kishi*, K. Tanaka, M. Tagawa, T. Toda, *Soka University, Japan*
14:15-14:30	**[O2.2A] A low-cost route to sugar-derived platform chemicals *via* fast pyrolysis of "vegetable ivory" residue** S. Ghysels*, A.E. Estrada Léon, M. Pala, F. Ronsse, *University of Ghent, Belgium*	**[O2.2B] Obtaining *Dunaliella sp.* biomass accumulation, β-carotene production and ammonium nitrogen removal from poultry litter anaerobic fermentation effluent** T. Han*[1], H-F. Lu[1], Y. Zhao[2], Y-H. Zhang[1,2], B-M. Li[1], H. Xu[1], [1]*China Agricultural University, China,* [2]*University of Illinois at Urbana-Champaign, USA*
14:30-14:45	**[O2.3A] Production of catalytic carbons from the pyrolysis of Jatropha curcas L. roots contaminated with heavy metals** J.F. García Martín*, F.J. Alés Álvarez, P. Álvarez Mateos, *University of Seville, Spain*	**[O1.2B] Biochemical, photosynthetic and proteomic profiling of Arthrospira sp. for remediation of wastewater sources and production of high value by-products** N. Sachdeva*[1], B. Leroy[1], C. Lasseur[2], R. Wattiez[1], [1]*University of Mons, Belgium,* [2]*ESTEC, European Space Agency, The Netherlands*
14:45-15:00	**[O2.4A] Evaluating the trade-offs in energy yield, efficiency and fuel characteristics of hydrothermal carbonisation (HTC) for the treatment of crop digestate** S. Farthing*, R. Smith, C. Snape, J. McKechnie, *University of Nottingham, UK*	**[O2.4B] Biotechnological approach for diatom-based biorefinery** M. Branco-Vieira*[4,1], S. San Martin[2], C. Agurto[2], M.A.V. Freitas[1], T.M. Mata[4], A.M. Martins[4], N.S. Caetano[3,4], [1]*Federal University of Rio de Janeiro, Brazil,* [2]*Concepción University, Chile,* [3]*School of Engineering of Polytechnic of Porto, Portugal,* [4]*University of Porto, Portugal*
15:00-15:30	**Coffee Break** | Room: Tramuntana 1	
15:30-17:30	**Session 3A: Biological waste treatment – Microbial Electro-chemical system & Environmental bioengineering** **Session Chair:** Giorgio Mannina, *University of Palermo, Italy* **Room:** Tramuntana 2&3	**Session 3B: Lignocellulose Biorefinery** **Session Chair:** Mohammad J. Taherzadeh, *Swedish Centre for Resource Recovery, University of Borås, Sweden* **Room:** Garbi
15:30-15:45	**[INV05] Removal and fate of micropollutants in a hybrid moving bed biofilm reactor-membrane Bioreactor system** W. Guo, *University of Technology Sydney, Australia*	**[O3.7B] Sugarcane-bagasse hydrolysate as a platform for a fungal-based biorefinery** A.K.F. Carvalho*, H.B.S. Beto, C.E.R. Reis, H.F. De Castro, *University of São Paulo, Brazil*
15:45-16:00		**[O3.8B] Second-generation lactic acid production and bio-detoxification of hemicellulosic hydrolysate** R. Alves de Oliveira*[1], R. Schneider[2], C.E. Vaz Rossell[1], R. Maciel Filho[1], J. Venus[2], [1]*University of Campinas, Brazil,* [2]*Leibniz Institute for Agricultural Engineering and Bioeconomy e.V., Germany*
16:00-16:15	**[O3.1A] Development of light shielding hydrogel for nitrifying bacteria to mitigate photoinhibition under strong light irradiation** K. Nishi*, S. Akizuki, J. Ida, T. Toda, T. Matsuyama, *Soka University, Japan*	**[O3.1B] Integrated biorefinery process; Isolation of date palm biomass waste into individual lignocellulosic fractions** E. Galiwango*[1], N.S. Abdel Rahman[1], A.H. Al-Marzouqi[1], M-M. Abu-Omar[1,2], A-A. Khaleel[1], [1]*UAE University, United Arab Emirates,* [2]*University of California Santa Barbara, USA*
16:15-16:30	**[O3.2A] Microbial recycling cells (MRCs): A new platform of microbial electrochemical technologies based on biocompatible materials, aimed at cycling carbon and nutrients in agro-food systems** A. Schievano*[1], A. Goglio[1], S. Marzorati[1], M. Tucci[1], B. Rizzi[1], P. Cristiani[2], [1]*University of Milan, Italy,* [2]*Ricerca del Sistema Energetico, Italy*	**[O3.2B] Enhancing biohydrogen production from acid hydrolysates of Agave tequilana bagasse by using response surface methodology and detoxification with activated charcoal** J. Arreola-Vargas*[1], B.E. Valdez-Guzmán[2], V. González-Álvarez[2], A. Toledo-Cervantes[2], H.O. Méndez-Acosta[2], H. Liu[3], [1]*Universidad Tecnológica de Jalisco, Mexico,* [2]*Universidad de Guadalajara, Mexico,* [3]*University of Nottingham, UK*
16:30-16:45	**[O3.3A] Treatment of aquaculture wastewater with Chlorella vulgaris and Acutodesmus obliquus: The effect of wastewater pretreatment on microalgae growth and nutrient removal efficiency** Y. Tejido-Nuñez*[1], L. Sancho[1], E. Aymerich[1], D. Refardt[2], [1]*Ceit-IK4 and Tecnun (University of Navarra), Spain,* [2]*Zurich University of Applied Sciences, Switzerland*	**[O3.3B] Membrane filtration of depolymerised Kraft lignin for microbial conversion: A proof-of-concept study** O. Abdelaziz*, K. Ravi, P. Tunå, C. Turner, G. Lidén, C. Hulteberg, *Lund University, Sweden*

16:45-17:00	**[O3.4A] Enhancement of biomethane production from integrated sewage sludge-food waste co-digestion system** J.W.C. Wong*, G. Kaur, *Hong Kong Baptist University, Hong Kong*	**[O3.4B] Importance of various parameters to enhance lignocellulosic biomass conversion to fermentable sugars** L. Mezule*, I. Berzina, *Riga Technical University, Latvia*
17:00-17:15	**[O3.5A] Coupling pyrolysis and struvite precipitation to maximize energy and nutrient recovery from digestate** M.A. Wahab*[1], G. Griffiths[1], [1]*Aston University, UK,* [2]*University of Carthage, Tunisia*	**[O3.5B] Organosolv pretreatment for bioethanol production in a wood biorefinery using sawmill mixed feedstocks** M. Abdou Alio*, C. Vial, A. Pons, *Clermont Auvergne University, France*
17:15-17:30	**[O3.6A] Two attempt to optimize n-damo process through optimization of methane availability: Static pressure and immobilization** Z. Hu*, D.Y. Ru, *Shandong University, China*	**[O3.6B] Mild reaction conditions induce high sugar yields during the pretreatment of A. tequilana bagasse with 1-ethyl-3-methylimidazolium acetate** J. Arreola-Vargas*[1,2], J.P. Álvarez Icaza-Herrera[2], J.A. Pérez-Pimienta[3], V. González-Álvarez[2], H.O. Méndez-Acosta[2], [1]*Universidad Tecnológica de Jalisco, Mexico,* [2]*Universidad de Guadalajara, Mexico,* [3]*Universidad Autónoma de Nayarit, Mexico*
17:30-19:00	**Industry-Academia Speed Dating Event (with refreshments)**	

Tuesday 18th September 2018

08:30-09:50	**Plenary Session** | **Room:** Tramuntana 2&3 **Session Chair:** Ashok Pandey, CSIR-Indian Institute of Toxicology Research, Lucknow, India	
08:30-09:10	**[PL03] Circular economy concepts and practice using microalgae as the platform** J-S. Chang*, C. Chen, *National Cheng Kung University, Taiwan*	
09:10-09:50	**[PL04] Biomass from swine wastewater and its conversion to bioenergy for effective application** H.H. Ngo, *University of Technology Sydney, Australia*	
09:50-10:20	**Coffee Break and Poster Session 2** | Room: Tramuntana 1	
10:20-12:05	**Session 4A: Biological waste treatment – Anaerobic digestion** **Session Chair:** Wenshan Guo, *University of Technology, Sydney, Australia* **Room:** Tramuntana 2&3	**Session 4B: Biorefineries & Biofuels** **Session Chair:** Luciana Vandenberghe, *Federal University of Parana, Curitiba, Brazil* **Room:** Garbi
10:20-10:50	**[INV07] Perspectives on modeling membrane bioreactors in wastewater treatment** G. Mannina, *University of Palermo, Italy*	**[INV08] Biorefinery of agricultural crops and side streams from the agro-food industry. Developments at COSUN** W. Huijgen, *Royal Cosun, The Netherlands*
10:50-11:05	**[O4.1A] Identification of mechanisms for removing antibiotics and hormones from swine wastewater in anaerobic bioreactors** D.L. Cheng*[1], W.S. Guo[1], H.H. Ngo[1], J. Zhang[2], S. Liang[2], Y.W. Liu[1], D. Nghiem[1], B.J. Ni[1], [1]*University of Technology Sydney, Australia,* [2]*Shandong University, China*	**[O4.1B] Fatty methyl esters in biodiesel: Comparison between two microalgae** M. Maepa*[1,2], M. Low[1,2], K.H. Harding[1,2], [1]*University of the Witwatersrand, South Africa,* [2]*Industrial and Mining Water Institute, South Africa*
11:05-11:20	**[O4.2A] Food waste enhanced anaerobic digestion of biologically pretreated yard waste: Analysis of cellulose crystallinity and microbial communities** L. Zhang*[1], J. Zhang[2], K.C. Loh[1], [1]*National University of Singapore, Singapore,* [2]*NUS Environmental Research Institute, Singapore*	**[O4.2B] Cellulose breakdown kinetics and biocenosis adaption during biogas production: studies on continuous fermentations with fully synthetic media** H. Goldinger*, D. Schieder, V. Sieber, *Technical University of Munich, Germany*
11:20:11:35	**[O4.3A] Two-stage high pressure anaerobic digestion for biomethane production at operating pressures up to 50 bar** W. Merkle*, A. Lemmer, *University of Hohenheim, Germany*	**[O4.3B] Optimal conditions for two-step hydrothermal liquefaction (HTL) of microalgae** M. Montero-Hidalgo*, R. Rodriguez, J.J. Espada, V. Morales, G. Vicente, L.F. Bautista, *Rey Juan Carlos University, Spain*
11:35-11:50	**[O4.4A] Intermittent micro-aeration for controlling volatile fatty acids accumulation in high loading rate anaerobic digestion** D. Nguyen, S.K. Khanal*, *University of Hawaii at Manoa, USA*	**[O4.4B] Viability of protein-based plastics from *Desmodesmus sp.* and *Scenedesmus obliquus* after ozone or ultrasound pretreatment** R.M. González-Balderas*[1], S.B. Velásquez-Orta[2], M.T. Orta Ledesma[1], [1]*Universidad Nacional Autónoma de México (UNAM), Mexico,* [2]*Newcastle University, UK*
11:50-12:05	**[O4.5A] Fate of antibiotic resistance genes during anaerobic digestion of sewage sludge: Role of solids retention times in different configurations** J.Y. Zhang*[1], J.B. Liu[1], J. Tong[1], Y.S. Wei[1], [1]*Chinese Academy of Sciences, China,* [2]*University of Chinese Academy of Sciences, China*	**[O4.5B] An economical bio–LNG production with integration of CO_2 removal unit** J. Haider*, M. A.Qyyum, M.Y. Lee, *Yeungnam University, Republic of Korea*
12:05-13:30	**Lunch** | Restaurant	

12:30-13:30	**"How to write a scientific paper and get published" Workshop with Elsevier Publisher (Early Career Researcher Event)** | Room: Garbi	
13:30-14:10	**Plenary Session** | **Room:** Tramuntana 2&3 **Session Chair:** Ashok Pandey, CSIR-Indian Institute of Toxicology Research, Lucknow, India	
13:30-14:10	**[PL05] Anaerobic biodegradation of lignin: New understandings of the influence of structural modifications** B. Ahring, *Washington State University, USA*	
14:10-15:25	**Session 5A: Biological Waste Treatment and Management** **Session Chair:** Huu Hao Ngo, *University of Technology, Sydney, Australia* **Room:** Tramuntana 2&3	**Session 5B: White Biotechnology – Production of Fuels and Chemicals** **Session Chair:** Guocheng Du, *Jiangnan University, Wuxi, China* **Room:** Garbi
14:10-14:40	**[INV09] Energy recovery and in-situ utilization for wastewater treatment using microbial electrochemical systems** Y. Feng, *Harbin Institute of Technology, China*	**[INV10] Technological advances in CO_2 Electrobiorefinery** D. Pant, *Flemish Institute for Technological Research (VITO), Belgium*
14:40-14:55	**[O5.1A] A combined anaerobic and aerobic processes for the treatment of strongly polluted wastewater from the cleaning of food and fodder road transport tanks** V.T. Nguyen*[1,2], B. Erik[2], J. Neumann[3], D. Awe[4], N. Cohrt[2], W. Pfeiffer[2], J. Träckner[1], *[1]University of Rostock, Germany, [2]University of Wismar, Germany, [3]TS-Clean Tank-und Siloreinigung Neumann GmbH, Germany, [4]Rotaria Energie und Umwelttechnik GmbH, Germany*	**[O5.2A] Consolidated bioprocessing of paper sludge by clostridial consortium for acetic acid production** E. Triwahyuni, H. Rabemanolontsoa*, S. Saka, *Kyoto University, Japan*
14:55-15:10	**[O5.2A] Elimination of Br^- interference on chemical oxygen demand (COD) determination for Br^--containing industrial wastewater samples** X. Shi*[1], S. Huang[1], T.S. Yeap[1], S.L. Ong[1], K.H. Sim[2], H. Fang[2], K.B. Siah[2], H.Y. Ng[1], *[1]National University of Singapore, Singapore, [2]Sembcorp Industries Ltd, Singapore*	**[O5.2B] Evaluation of cellulolytic enzyme preparations for enhancing succinic acid production from Miscanthus straw** K. Dąbkowska[1], M. Alvarado-Morales[2], M. Kuglarz*[3], I. Angelidaki[2], *[1]Warsaw University of Technology, Poland, [2]Technical University of Denmark, Denmark, [3]University of Bielsko-Biala, Poland*
15:10-15:25	**[O5.3A] Biochemical conversion of gaseous CO_2into CH_4 in the presence of nanoscale zero-valent iron (nZVI): Potential option for biogas upgrade** D.D. Dong*, X. Zhao, O.K. Choi, J.W. Lee, *Korea University, Republic of Korea*	**[O2.3B] Metabolic pathway and bioreactor engineering for biofuel and chemical production from CO2 in *Cupriavidus necator*.** S.E. Guillouet*[1], N. Gorret[1], E. Lombard[1], J. Singh[2], *[1]INSA -LISBP, France, [2]HEL Ltd, UK*
15:25-16:00	**Coffee Break & Poster Session 2** | Room: Tramuntana 1	
16:00-17:30	**Session 6A: Biological Waste Treatment – Resource Recovery & Waste Biorefinery** **Session Chair:** Yujie Feng, *Harbin Institute of Technology, China* **Room**: Tramuntana 2&3	**Session 6B: White Biotechnology** **Session Chair:** Jonathan WC Wong, Hong Kong Baptist University, Hong Kong **Room**: Garbi
16:00-16:30	**[INV11] Simultaneous cellulase production, recovery and effluent treatment - a wastewater biorefinery approach** N. Libardi, C.R. Soccol, J.C. Carvalho, L.P.S. Vandenberghe*, *Universidade Federal do Parana,*	**[INV12] Synthetic redesign of central carbon and redox metabolism coordinates the imbalanced metabolism of engineered Bacillus subtilis for improved N-acetylglucosamine production** G. Du*, L. Liu, J. Li, J. Chen, *Jiangnan University, China*
16:30-16:45	**[O6.1A] Development of a venturi-type injector as a H2 mass transfer technology for full-scale in situ biomethanation** M.B. Jensen*, M.V.W. Kofoed, L.D.M. Ottosen, *Aarhus University, Denmark*	**[O6.1B] Electricity driven bio-production of polyhydroxybutyrate (phb) from carbon dioxide** T. Pepè Sciarria*[1], P. Battle-Vilanova[2], B. Colombo[1], B. Scaglia[1], M.D. Balaguer[2], J. Colprim[2], F. Adani[1], S. Puig[2], *[1]University of Milan, Italy, [2]University of Girona, Spain*
16:45-17:00	**[O6.2A] How to convert wastewater into bioproducts: A biorefinery approach in a microalgae-based wastewater treatment plant** E. Uggetti*, R. Díez-Montero, M.J. García-Galán, J. García, *Universitat Politècnica de Catalunya, Spain*	**[O6.2B] The hydrodynamics of an aqueous-hydrocarbon-yeast bioprocess in a bubble column reactor** A. Abufalgha*, R. Pott, K. Clarke *University of Stellenbosch, South Africa*
17:00-17:15	**[O6.3A] Biological reject water treatment for enhanced carbon recovery** S.B. Hashemi[1], S. Niazi[1], C. Dinamarca*[1], E. Janka[1], A. Heggholmen[1], S. Wang[2], R. Bakke[1], *[1]University of South-Eastern Norway, Norway, [2]Biowater*	**[O6.3B] Polyhydroxyalkanoates from mixed microbial culture: Production and extraction through green methods** D. Presti[1,2], G. Montiel-Jarillo[2], G. Mannina[1], M.E. Suárez-Ojeda*[2], *[1]Università degli studi di Palermo, Italy, [2]Universitat Autonoma de Barcelona, Spain*

17:15-17:30	**[O6.4A] Removal of organic and inorganic contaminants from leachate with sludge- and manure chars** M. Niinipuu*[1], F-F. Boily[1], M. Bergknut[2], [1]*Umeå University, Sweden,* [2]*MTC-Miljötekniskt Center AB, Sweden*	**[O6.4B] Digestate from biowaste as a source of bioproducts through solid-state fermentation** A. Cerda*[1], L. Mejias[1,2], P. Rodriguez[1], A. Rodriguez[1], X. Font[1], A. Artola[1], T. Gea[1], A. Sánchez[1], [1]*Autonomous University of Barcelona, Spain,* [2]*Aeris Tecnologías Ambientales S.L, Spain*
19:30-22:00	**Gala Dinner (Optional Event – Tickets to be purchased)**	

Wednesday 19th September 2018

08:30-09:10	**Plenary Session** | **Room:** Tramuntana 2&3 **Session Chair:** Ashok Pandey, CSIR-Indian Institute of Toxicology Research, Lucknow, India	
08:30-09:10	**[PL06] Innovative value chains in the EU Bio-based Economy: It's all about partnerships** D. Carrez, *Bio Based Industries Consortium, Belgium*	
09:10-10:40	**Session 7A: Bioresource policies, bioeconomy and social perspectives** **Session Chair:** Dirk Carrez, *Bio Based Industries Consortium, Belgium* Room: Tramuntana 2&3	**Session 7B: White Biotechnology- Techno-economic analysis, life-cycle assessment and sustainability** **Session Chair:** Deepak Pant, *VITO, Mol, Belgium* Room: Garbi
09:10-09:40	**[INV13] Modern bioenergy and its role in the transition towards a low-carbon economy** L. Pelkmans, *Technical Coordinator IEA Bioenergy, Belgium*	**[INV14] Techno-economic, exergy and life-cycle assessments of lignocellulosic biorefineries at sugarcane mills** S. Farzad, *Stellenbosch University, South Africa*
09:40-09.55	**[O7.1A] Environmental, economic, and social performance ofbiojet fuel supply chain in Brazil** F. Pashaei Kamali*, S. Córdova Tafur, P. Osseweijer, J.A. Posada, *Delft University of Technology, The Netherlands*	**[O7.1B] Sustainability analysis of cost-competitive bio-hydrogen production using advanced biorefineries** A. Sanchez*[1], P. Hernández-Sánchez[1], O. Ayala[1], I. Valdez-Vázquez[2], A. de León[3], [1]*Unidad Guadalajara, Mexico,* [2]*Universidad Nacional Autónoma de México, Mexico,* [3]*Instituto Potosino de Investigación Científica y Tecnológica., Mexico*
09:55-10:10	**[O7.2A] How different energy vectors affect the profitability and sustainability of biomethane systems?** K. Rajendran*, J.D. Murphy, *University College Cork, Ireland*	**[O7.2B] Life cycle sustainability assessment of cassava-based ethanol in Thailand** S. Papong*[1], C. Rewlay-ngoen[2], R. Onbhuddha[1], B. Thanomnim[1], P. Suksatit[1], T. Chom-in[1], [1]*National Metal and Materials Technology Center (MTEC), Thailand,* [2]*Rajamangala University of Technology Phra Nakhon, Thailand*
10:10-10:25	**[O7.3A] Potentials for bio-based products in Western Norway** O. Andersen*[1], T.G. Hønsi[1], C. Carolis[2], [1]*Western Norway Research Institute, Norway,* [2]*Italian Biomass Association, Italy*	**[O7.3B] LCA for the supply and use of solid fuels generated from *Sida hermaphrodita* biomass** A. Schonhoff*, N.D. Jablonowski, P. Zapp, *Forschungszentrum Jülich GmbH, Germany*
10:25-10:40	**[O7.4A] Spatial agent-based modeling for dedicated energy crop adoption and cellulosic biofuel commercialization** E. Jin*, J. Sutherland, *Purdue University, USA*	**[O7.4B] Estimation of the externalities in a complex life cycle analysis, with lignocellulose biomass production given as an example** E. Olba-Ziety*, M. Krzyzaniak, J. Golaszewski, M.J. Stolarski, *University of Warmia and Mazury in Olsztyn, Poland*
10:40-11:10	**Coffee Break** | Room: Tramuntana 1	
11:10-12:30	**Panel Discussion** | Room: Tramuntana 2&3	
12:30-13:00	**Closing address: Ashok Pandey and Deepak Pant (including BIORESTEC Best Posters awards)** Room: Tramuntana 2&3	
13:00-14:30	**Lunch** | Restaurant	