

## Scientific Program

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| <b>October 22<sup>nd</sup>, 14:00 – 15:00</b>   |   | <b>Room: Theater</b> |
| <b>Opening Ceremony</b>   |   |                      |
| <b>October 22<sup>nd</sup>, 15:00 – 16:30</b>   |   | <b>Room: Theater</b> |
| <b>Plenary Session 1</b>  |   |                      |
| Keynote Lecture 1 (15:00 – 15:20)<br><b>Lais de Souza Garcia</b> (Head of the Renewable Energy Division, Ministry of Foreign Affairs) and <b>André Aranha Corrêa do Lago</b> (Secretary for Climate, Energy and Environment, Ministry of Foreign Affairs, Brazil)   | Keynote Lecture 2 (15:20 – 15:40)<br><b>Jim Spaeth</b> (Bioenergy Technologies Office Program Manager, Department of Energy, USA)       |                      |
| Keynote Lecture 3 (15:40 – 16:00)<br><b>Heitor Cantarella</b> (Director of Soils and Environment Center, Agronomical Institute of Campinas, Brazil)   | Keynote Lecture 4 (16:00 – 16:10) ( <i>video</i> )<br><b>Sangita Kasture</b> (Scientist G, Ministry of New and Renewable Energy, India) |                      |
| Keynote Lecture 5 (16:10 – 16:30)<br><b>Maria Georgiadou</b> (Senior Expert Renewable Fuels, Biofuels and Bioenergy, Directorate-General for Research and Innovation, European Commission) ( <i>video</i> )   |   |                      |
| <b>October 22<sup>nd</sup>, 16:30 – 17:00</b>   |   | <b>Level E2</b>      |
| <b>Coffee Break</b>   |   |                      |
| <b>October 22<sup>nd</sup>, 17:00 – 17:30</b>   |   | <b>Room: Theater</b> |
| <b>Bioenergy Research 25-yr Celebration</b><br>Launch by Luiz Augusto Horta Nogueira - Bioethanol - Fast Track to Mobility Decarbonization  |   |                      |
| <b>October 22<sup>nd</sup>, 18:00 – 19:00</b>   |   | <b>Room: Havana</b>  |
| <b>Cocktail</b>   |   |                      |
| <b>October 23<sup>rd</sup>, 08:30 – 10:00</b>   |   | <b>Room: Theater</b> |
| <b>Plenary Session 2 - Round Table:</b> How can policies support the deployment of sustainable bioenergy towards its most effective uses (Moderator: IEA Bioenergy) Main topics (1) the roles of bioenergy in the energy system and how policy can support this and (2) the potential need to prioritize biomass uses and aim for a level-playing field in policy<br>Moderators: <b>Dina Bacovsky</b> (BEST/IEA Bioenergy) and <b>Marlon Arraes</b> (MME, Brazil) |   |                      |
| <b>Jeremy Moorhouse</b> (IEA) ( <i>video</i> )<br><b>Marlon Arraes Jardim Leal</b> (MME, Brazil)<br><b>Paul Bennett</b> (Scion Research, NZ)<br><b>Daniela Thraen</b> (UFZ, Germany)<br><b>Christian Rakos</b> (WBA, Austria)   |   |                      |
| <b>October 22<sup>nd</sup>, 10:00 – 10:30</b>   |   | <b>Level E2</b>      |
| <b>Coffee Break</b>   |   |                      |

| October 23 <sup>rd</sup> , 10:30 – 12:00   |  | Room: Theater |
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| <p><b>Plenary Session 3 – Round Table:</b> Building confidence and creating synergies within the bioeconomy<br/>Moderators: <b>Lais de Souza Garcia</b> (Ministry of Foreign Affairs, Brazil) and <b>Jim Spaeth</b> (Bioenergy Technologies Office Program Manager, Department of Energy, USA)</p>   |  |               |
| <p><b>Keith Kline</b> (ORNL, Biofuture Platform, USA)<br/><i>Advancing evidence-based analysis of biomass production and use: the Clean Energy Ministerial Biofuture Initiative</i></p>  |  |               |
| <p><b>André Valente</b> (Raizen, Brazil)</p>   |  |               |
| <p><b>João Vicente</b> (Braskem and UFABC, Brazil)<br/><i>Biomass beyond energy: the importance of public policies for bio-based products</i></p>  |  |               |
| <p><b>Patricia Audi</b> (Unica, Brazil)</p>  |  |               |
| Parallels Sessions   |  |               |
| October 23 <sup>rd</sup> , 13:00 – 14:30   |  |               |
| Room: Theater  | Room: Pampas   |               |
| <p><b>Parallel Session 1 – Sustainable Aviation Fuels</b><br/>Moderator: <b>Jim Spaeth</b> (DOE, USA)</p>  | <p><b>Parallel Session 2 – Mobilizing feedstocks and setting up supply chains</b><br/>Moderators: <b>Heitor Cantarella</b> (IAC, Brazil)</p>   |               |
| <p><b>Susan Van Dyk</b> (UBC, Canada)<br/><i>Progress in Commercialization of Biojet/Sustainable Aviation Fuels (SAF): Technologies and policies</i></p> <p><b>Camilo Adas</b> (Be8, Brazil)<br/><i>Title to be announced</i></p> <p><b>Rubens Maciel</b> (UNICAMP, Brazil)<br/><i>Title to be announced</i></p> <p><b>Eduardo Calderon</b> (GOL, Brazil)<br/><i>Title to be announced</i></p> | <p><b>Mark Brown</b> (USC, Australia)<br/><i>International collaboration driving innovation in sustainable biomass supply – IEA Bioenergy TCP Task on Biomass Supply</i></p> <p><b>Damon Hartley</b> (INL, USA)<br/><i>The evolution of bioenergy supply chains and the influence of producer adoption</i></p> <p><b>Patricia Osseweijer</b> (DTU, The Netherlands)<br/><i>Inclusive design of context-specific biohubs for sustainable marine biofuels production: An approach guided by Value Sensitive Design (VSD)</i></p> <p><b>Aluwani Tagwi</b> (University of South Africa, South Africa)<br/><i>Bioenergy potential from livestock residues: A case of small-scale farmers in Limpopo province, South Africa</i></p> <p><b>Bruna Leuner</b> (BTUCS, Germany)<br/><i>Indigenous Bioeconomy and the biomass potential in Brazilian indigenous territories</i></p> |               |

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| <b>October 23<sup>rd</sup>, 13:00 – 14:30</b>   |   |
| <b>Room: Yucon</b>  | <b>Room: Labrador</b>   |
| <b>Parallel Session 3 – Biogas and Biomethane</b><br>Moderators: <b>Jan Liebetrau</b> (Rytec, Germany) and <b>Rafael Gonzalez</b> (CIBIOGAS, Brazil)  | <b>Parallel Session 4 – BIOEN Biomass</b><br>Moderator: <b>Joaquim Seabra</b> (UNICAMP, Brazil)   |
| <p><b>Dong Renije</b> (China Agricultural University, China)<br/><i>Why Biogas Matters - Agricultural Biowastes in a Great Cycle</i></p> <p><b>Bernhard Drosig</b> (BOKU University, Austria)<br/><i>Digestate processing – how to produce a high-quality fertilizer</i></p> <p><b>Peter Kornatz</b> (DBFZ, Germany)<br/><i>Bogotá: Challenges and Prospects of Organic Waste Utilization in a Latin American Metropolis.</i></p> <p><b>Laurent Spreutels</b> (NRC, Canada)<br/><i>Combined production of biogas and hydrochar from food waste</i></p> <p><b>Masayuki Fukushima</b> (Furukawa Electric, Japan)<br/><i>Development of Green LPG Technology from Biogas</i></p> | <p><b>Wagner Rodrigo de Souza</b> (UFABC, Brazil)<br/><i>Biotechnological strategies for genetic improvement of grasses for biofuel production</i></p> <p><b>Cassio Hamilton Abreu Junior</b> (USP, Brazil)<br/><i>Energy cane: Decarbonization Challenges and Biomass Production Potential</i></p> <p><b>Gonçalo Amarante Guimarães Pereira</b> (UNICAMP, Brazil)<br/><i>BRAVE: A program to convert the semi-arid region into a new agro-industrial frontier</i></p> <p><b>Carlos Eduardo Pellegrino Cerri</b> (USP, Brazil)<br/><i>Center For Carbon Research In Tropical Agriculture (CCarbon/USP): A Platform For National And International Collaborations</i></p> <p><b>Ricardo de Oliveira Bordonal</b> (LNBR/CNPEM, Brazil)<br/><i>Deciphering the role of pore structure in driving soil carbon accrual in bioenergy cropping systems in Brazil</i></p> |
| <b>October 23<sup>rd</sup>, 13:00 – 14:30</b>   |   |
| <b>Meeting our Future Scientists (part 1)</b><br>Moderators: <b>Rafael Vasconcelos Ribeiro</b> (UNICAMP, Brazil) and <b>Carolina Rossi de Oliveira</b> (UNICAMP, Brazil)<br>Students from Escola Estadual José Geraldo de Lima, São Paulo SP.   |   |
| <b>October 23<sup>rd</sup>, 14:30 – 16:00</b>   |   |
| <b>Poster Session I and Coffee Break</b>  |   |
| <p><b>A - Biomass:</b> traditional and alternative energy feedstocks, including waste use</p> <p><b>E - Sustainability, Environmental, Social, Economic and Public Policy Issues</b></p>  |   |
| <b>Room: Patagônia</b>  |   |

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| <b>October 23<sup>rd</sup>, 14:30 – 16:30</b>   | <b>Room: Patagônia</b> |
| <b>ICARUS Workshop on “International R&amp;I Cooperation on Sustainable Aviation Fuels”</b><br>Moderator: <b>Rainer Janssen</b> (WIP Renewable Energies, Germany)   |                        |
| <p><b>Loukas Gavriil</b> (CRES, Greece)<br/><i>The ICARUS project – International cooperation for sustainable aviation biofuels</i></p> <p><b>Francisco Girio</b> (LNEG, Portugal)<br/><i>Framework conditions for SAF development in Europe and Mission Innovation Countries</i></p> <p><b>Giovanny Oliveira</b> (Senai, Brazil)<br/><i>Journey to Sustainability: Advances and innovations in Fischer-Tropsch Synthesis for SAF production</i></p> <p><b>Rainer Janssen</b> (WIP Renewable Energies, Germany)</p> |                        |
| <b>Panel discussion “International R&amp;I Cooperation on Sustainable Aviation Fuels”</b>   |                        |
| <p><b>Panelists:</b> <b>Laís Thomaz</b> (Federal University of Goiás, Brazil)</p> <p><b>José Muisers</b> (IEA Bioenergy Task 39, RVO, The Netherlands)</p> <p><b>Carolina Grassi</b> (RSB, Switzerland)</p> <p><b>Andrea Sonnleitner</b> (BEST, Austria)</p>  |                        |

| October 23 <sup>rd</sup> , 16:00 – 17:30   |  |
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| Room: Theater  | Room: Pampas   |
| <b>Parallel Session 5 – The Future of Biorefineries</b><br>Moderator: <b>Rubens Maciel</b> (UNICAMP, Brazil)   | <b>Parallel Session 6 – Heat and power from biomass and waste</b><br>Moderator: <b>Oshada Mendis</b> (NRCan, Canada)   |
| <b>João Luis Nunes Carvalho</b> (LNBR, Brazil)<br><i>Incorporating biochar into the sugarcane biorefinery delivers ethanol and SAF with negative carbon emissions</i><br><b>Kees Kwan</b> (RVO, The Netherlands)<br><i>Integrated Biorefineries Mission</i><br><b>Paul Stuart</b> (McGill University, Canada)<br><i>The Future of Biorefineries: Estimating the Impact of Innovative Policy on Biorefinery Strategies</i><br><b>Fabian Schipfer</b> (TU Wien, Austria)<br><i>Enabling Multi-Sector Coupling through Bio-Based Value Chain Networks</i><br><b>Connie McManus</b> (FAPESP, Brazil)<br><i>FAPESP-NWO Call “Integrated Biorefineries of the Future” announcement</i> | <b>Morten Tony Hansen</b> (Ea Energy Analysis, Denmark)<br><i>Options for net negative GHG emissions with biomass combustion</i><br><b>Mar Edo</b> (RISE, Sweden)<br><i>Towards a Dynamic Understanding of Waste-to-Energy Futures</i><br><b>Daniela Thraen</b> (UFZ, Germany)<br><i>Bioenergy integration in renewable energy systems</i><br><b>Andrea Cressoni De Conti</b> (UNESP, Brazil)<br><i>Analysis of solid fuel produced from enzymatic hydrolysis residues</i><br><b>Brock Jeffrey Harrington</b> (CPM Dorssers, Canada)<br><i>Co-Densification Abstract</i> |

| October 23 <sup>rd</sup> , 16:00 – 17:30   |   |
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| Room: Yukon  | Room: Labrador  |
| <b>Parallel Session 7 – BIOEN Mobility and End Use</b><br>Moderator: <b>Luiz Augusto Horta Nogueira</b> (UNIFEI, Brazil)   | <b>Parallel Session 8 – BIOEN Biofuel Technologies</b><br>Moderator: <b>Eduardo Couto</b> (CNPEM, Brazil)   |
| <b>Ronaldo Domingues Mansano</b> (USP, Brazil)<br><i>Plasma Assisted Ignition for Application in Internal Combustion Engines</i><br><b>Guenther Carlos Krieger Filho</b> (USP, Brazil)<br><i>Title to be announced</i><br><b>Roberto Matarazzo Braun</b> (Toyota do Brasil)<br><i>The role of biofuels for automotive industry decarbonization</i><br><b>Erwin Karl Franieck</b> (UNICAMP, Brazil)<br><i>Title to be announced</i><br><b>Clayton Barcelos Zabeu</b> (Instituto Mauá, Brazil)<br><i>Title to be announced</i> | <b>Lee Lynd</b> (Dartmouth College, USA)<br><i>Consolidated Bioprocessing Research at the Advanced Second Generation Biofuel Laboratory</i><br><b>Taisa Magnani Dinamarco</b> (USP, Brazil)<br><i>Bioprospecting the repertoire of fungal CAZymes for eco-friendly value-added hydrolyses of biomass</i><br><b>Andreas Karoly Gombert</b> (UNICAMP, Brazil)<br><i>Yeast population dynamics in Brazilian bioethanol production</i><br><b>Boris Stambuck</b> (UFSC, Brazil)<br><i>Developing Recombinant Industrial Yeast Strains for Integration of First- (1G) and Second-Generation (2G) Bioethanol Production: a Solution for Brazilian Biorefineries</i><br><b>Ana Paula Jacobus</b> (SENAI, Brazil)<br><i>Robust Yeast for Cellulosic Ethanol: Insights from Adaptive Laboratory Evolution</i> |

# BBEST & IEA Bioenergy Conference 2024

**Bioenergy and bioproducts:**  
Accelerating the transition  
towards sustainability

| October 24 <sup>th</sup> , 08:30 – 10:00  |  |
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| Room: Theater   | Room: Pampas   |
| <b>Parallel Session 9 – Biogas, Biomethane and Biohydrogen</b><br>Moderator: <b>Birger Kerckow</b> (FNR, Germany)   | <b>Parallel Session 10 – Land Use for Bioenergy and the Bioeconomy</b><br>Moderator: <b>Patrick Lamers</b> (NREL, USA)   |
| <b>Rogério Meneghetti</b> (Itaipu Binacional, Brazil)<br><i>Bioenergy in Brazil: History of Regulation</i><br><b>Berend Vreugdenhil</b> (TNO, The Netherlands)<br><i>Perspectives of biomethane from biomass gasification</i><br><b>Jan Liebetrau</b> (Rytec, Germany)<br><i>Biogas systems – recent developments and future perspectives</i><br><b>Bruna Moraes</b> (UNICAMP, Brazil)<br><i>Biohydrogen and Biomethane Production from Municipal Solid Waste (MSW) at Unicamp: An Innovative Living-lab Proposal</i><br><b>Julio R. Meneghini</b> (RCGI, Brazil)<br><i>Title to be announced</i> | <b>Floor van der Hilst</b> (Utrecht University, The Netherlands)<br><i>Land use for bioenergy: synergies and trade-offs between sustainable development goals</i><br><b>Marcelo Moreira</b> (Agroicone, Brazil)<br><i>Title to be announced</i><br><b>Niklas Hinkel</b> (IIASA, Austria)<br><i>Understanding uncertainty in market-mediated responses to US oilseed biodiesel demand</i><br><b>Luciano Verdade</b> (USP, Brazil)<br><i>Why do we need to monitor fauna and flora in multifunctional landscapes?</i><br><b>Daniella Fartes</b> (CGEE, Brazil)<br><i>Biofuels scientific knowledge: leading the Brazilian bioeconomy</i> |

| October 24 <sup>th</sup> , 08:30 – 10:00  |   |
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| Room: Yukon   | Room: Labrador  |
| <b>Parallel Session 11 – Progress in transport biofuels</b><br>Moderator: <b>Franziska Muller-Langer</b> (DBFZ, Germany)  | <b>Parallel Session 12 – Biomass productivity</b><br>Moderator: <b>Monalisa Carneiro</b> (UFSCAR, Brazil)   |
| <b>Tomas Ekbohm</b> (SVEBIO, Sweden)<br><i>One small step for man, a giant leap for mankind</i><br><b>Jack Saddler</b> (UBC, Canada)<br><i>BC-SMART, decarbonising the marine, aviation, rail and long-distance trucking sectors</i><br><b>José Muisers</b> (RVO, The Netherlands)<br><i>Robustness of ghg-emission verification and certification of biofuels – a case study of selected supply chains and policies</i><br><b>Fuli Li</b> (Chinese Academy of Sciences, China)<br><i>Production of chemicals and biofuels from CO2 by Clostridium ljungdahlii</i><br><b>Andrea Sonnleitner</b> (BEST, Austria)<br><i>BioTheRoS - Collaborative actions to bring novel biofuels thermochemical routes into industrial scale</i> | <b>Jorge da Silva</b> (Texas A&M, USA)<br><i>Production of Biomass for Bioenergy from Feedstock System with Positive Water Footprint</i><br><b>Prakash Lakshmanan</b> (GXAAS, China)<br><i>Sustainable sugarcane biomass production for bioenergy: constraints and prospects</i><br><b>Daniele Henzler</b> (CNPEN, Brazil)<br><i>Assessment of palm oil potential availability for a sustainable production of advanced biofuels in Brazil: Crop Assessment Tool parametrization</i><br><b>Gabriel Palma Petrielli</b> (CNPEN, Brazil)<br><i>Climate change effects on maize and sugarcane production in Mato Grosso do Sul state in Brazil: implications for bioenergy and sustainability</i><br><b>Edmar Ramos de Oliveira Filho</b> (UFL, USA)<br><i>Directed evolution of a plant histidinol dehydrogenase to extend lifespan</i> |
| October 24 <sup>th</sup> , 08:30 – 10:00  |   |
| <b>Room: Patagônia</b>  |   |
| <b>Meeting our Future Scientists (part 2)</b><br>Moderators: <b>Rafael Vasconcelos Ribeiro</b> (UNICAMP, Brazil) and <b>Carolina Rossi de Oliveira</b> (UNICAMP, Brazil)<br>Students from Escola Estadual Teotônio Alves Pereira, São Paulo SP.   |   |

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| <b>October 24<sup>th</sup>, 10:00 – 11:30</b>   | <b>Room: Américas</b> |
| <b>Poster Session II and Coffee Break</b>   |                       |
| <b>B - Biofuel Technologies</b> , including biomass process engineering and biofuels production<br><b>C - Biorefineries, Bio-Based Chemicals, Bioproducts and Biomaterials.</b><br><b>D - Biofuel End Use and Engines</b> |                       |

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| <b>October 24<sup>th</sup>, 10:00 – 11:30</b>   | <b>Room: Patagônia</b> |
| <b>Dutch-Brazilian panel on Sustainable Carbon (The Netherlands)</b>  |                        |
| Moderator: <b>Jacqueline Vaessen</b> (Executive Chair Top Sector Chemistry, ChemistryNL, The Netherlands)   |                        |
| <b>Michael Boot</b> (Vertoro)<br><b>Mateus Lopes</b> (Raízen)<br><b>Willemijn Witteveen</b> (Ministry of Climate Policy, and Green Growth, The Netherlands)<br><b>Lais Thomaz</b> (Ministry of Mines and Energy, Brazil)<br><b>John Posada</b> (Delft University of Technology, The Netherlands)<br><b>Eduardo Couto</b> (LNBR/CNPEM, Brazil) |                        |

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| <b>October 24<sup>th</sup>, 11:30 – 13:00</b>  |   |
| <b>Room: Theater</b>   | <b>Room: Pampas</b>   |
| <b>Parallel Session 13 – Biofuels in Emerging Markets</b><br>Moderator: <b>Bharadwaj Kumamuru</b> (WBA, Sweden)<br>and <b>Glauca Mendes Souza</b> (USP, Brazil)  | <b>Parallel Session 14 – Sustainability of Bioenergy Pathways</b><br>Moderators: <b>Zoe Harris</b> (University of Surrey, UK) and<br><b>Tiziana Pirelli</b> (FAO/GBEP, Italy)   |
| <b>Rocio Diaz-Chaves</b> (Imperial College, UK)<br><i>Biofuels production in Emerging Markets: A renewal of the sector in the Global South?</i><br><b>Aida Lorenzo</b> (GRFA, Guatemala)<br><i>Central America perspectives, opportunities and challenges to implement an ethanol blending program</i><br><b>Jossy Thomas</b> (UNIDO, Austria)<br><i>Potential contribution of Sugar sector in achieving energy access in developing countries</i><br><b>Unity Chipfupa</b> (UNISA, South Africa)<br><i>Bioenergy development pathways in the smallholder agricultural sector: A South African perspective</i><br><b>Monica Merdekawati</b> (Sustainable and Renewable Energy (SRE), ASEAN Centre for Energy (ACE), Indonesia)<br><i>Title to be announced</i> | <b>Annette Cowie</b> (NSW Primary Industries, Australia)<br><i>Guidance on quantifying the climate change effects of bioenergy and BECCS</i><br><b>Michael Wang</b> (ANL, USA)<br><i>Biofuel life-cycle analysis and the GREET LCA model</i><br><b>Joaquim Eugênio Abel Seabra</b> (UNICAMP, Brazil)<br><i>Life Cycle Sustainability assessment of biofuels</i><br><b>Thayse Hernandes</b> (LNBR, Brazil)<br><i>Integrated sustainability assessment platform: case study on potential impacts of climate change in sugarcane bioenergy and derived ecosystem service</i><br><b>Tiziana Pirelli</b> (FAO/GBEP, Italy)<br><i>Biofuels in emerging markets: lessons learned through the use of GBEP sustainability indicators</i> |

| October 24 <sup>th</sup> , 11:30 – 13:00   |  |
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| <b>Room: Yukon</b>   |  |
| <b>Parallel Session 15 – Renewable Marine Fuels</b><br>Moderator: <b>Camilo Adas</b> (SAE, Brazil)   |  |
| <p><b>Tom Walsh</b> (Renetech, Ireland)<br/><i>Lowering Hinders for Maritime Biofuels – identifying means to increase the use of biofuels in the marine sector</i></p> <p><b>Marjorie Mendes Guarengi</b> (Agroicone, Brazil)<br/><i>Assessment of sustainable aviation fuel production based on the AtJ pathway</i></p> <p><b>Mario de Luna Barbosa</b> (Wärtsilä, Brazil)<br/><i>Title to be announced</i></p> <p><b>Ling Tao (NREL, USA)</b><br/><i>Title to be announced</i></p> <p><b>Fernando Alberto Gomes da Costa</b> (MEPC, Marinha do Brazil, Brazil)<br/><i>The challenges faced by maritime biofuels as agents for decarbonising shipping</i></p> |  |

| October 24 <sup>th</sup> , 14:00 – 15:30   |   |
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| <b>Room: Theater</b>   | <b>Room: Pampas</b>   |
| <b>Parallel Session 17 – Grain biofuels and sugar-based biofuels</b><br>Moderator: <b>Federico Salcedo</b> (USGC, USA)   | <b>Parallel Session 18 – Making the most of biogenic carbon - BECCUS</b><br>Moderator: <b>Trond Bratsberg</b> (ENOVA, Norway)   |
| <p><b>Linda Schmid</b> (USGC, USA)<br/><i>Bioethanol Trends Brief</i></p> <p><b>Bruno Alves</b> (UNEM, Brazil)<br/><i>Corn ethanol production in Brazil: current status and prospects</i></p> <p><b>Sofia Arantes</b> (Agroicone, Brazil)<br/><i>Sustainability of Brazilian corn ethanol and its importance for energy transition</i></p> <p><b>Vitor Paulo Vargas</b> (Yara International, Brazil)<br/><i>Assessing the Impact of Nitrogen Fertilization on N2O emissions in Maize Production in Representative Soils from Brazilian Subtropic</i></p> <p><b>Tiziana Pirelli</b> (FAO/GBEP, Italy)<br/><i>Biofuels and sugar-based biofuels: how to ensure long-term sustainability?</i></p> | <p><b>Christiane Hennig</b> (DBFZ, Germany)<br/><i>BECCUS from innovation to deployment</i></p> <p><b>Niclas S. Bentsen</b> (University of Copenhagen, Denmark)<br/><i>The potential for Carbon Dioxide Removal (CDR) through bioenergy with carbon capture and storage (BECCS) - Case studies on wood chips and straw fired combined heat and power production in Denmark</i></p> <p><b>Saija Rasi</b> (NRI, Finland)<br/><i>Carbon dioxide utilization possibilities from acidic fermentation process</i></p> <p><b>Federico Gomes Fonseca</b> (DLR, Germany)<br/><i>Valorization of Waste Agricultural Residues from North-Western Germany: A Pathway to Biofuels and Long-term Carbon Storage within the UNLOC Concept</i></p> <p><b>Jean Felipe Leal Silva</b> (UNICAMP, Brazil)<br/><i>BECCUS of waste CO<sub>2</sub> from ethanol production: techno-economic analysis and life cycle assessment</i></p> |

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| <b>October 24<sup>th</sup>, 14:00 – 15:30</b>   |   |
| <b>Room: Yukon</b>  | <b>Room: Labrador</b>   |
| <b>Parallel Session 19 – Gasification and liquefaction pathways to biofuels and biochemicals</b><br>Moderator: <b>Berend Vreugdenhil</b> (TNO, The Netherlands)   | <b>Parallel Session 20 – BIOEN Bioproducts and Biorefineries</b><br>Moderator: <b>Telma Teixeira Franco</b> (UNICAMP, Brazil)   |
| <p><b>Axel Funke</b> (KIT, Germany)<br/><i>Biofuels and chemicals via fast pyrolysis and hydrothermal liquefaction – latest developments and trends</i></p> <p><b>Robert Baldwin</b> (NREL, USA)<br/><i>Advances in Co-Processing in the Fluid Catalytic Cracker</i></p> <p><b>Ilkka Hiltunen</b> (VTT, Finland)<br/><i>Validation tests of flexible fluidized-bed gasification process for co-production of synthesis gas and biochar</i></p> <p><b>Roberto Bieler</b> (BTG Bioliquids, The Netherlands)<br/><i>Fractionation of Fast Pyrolysis Bio-Oil for Decarbonisation of Transportation and Chemical Industry.</i></p> | <p><b>Mateus Ferreira Chagas</b> (CNPEM, Brazil)<br/><i>Standardizing Biorefinery Evaluation Models for Sustainable Aviation Fuel Development</i></p> <p><b>Julliana Muniz Golçalvez</b> (SENAI-CETIQT, Brazil)<br/><i>Techno-economic feasibility assessment of renewable hydrogen carriers production from water electrolysis</i></p> <p><b>Danilo Eiji Hirayama</b> (IPT, Brazil)<br/><i>Valorizing residues of sugar cane biorefinery operation to produce liquid fuels - Assessment of energy balances and influence of major inorganic elements to produce fast pyrolysis bio-oil</i></p> <p><b>Miguel Sanchez Garcia</b> (Futura Fuels, The Netherlands)<br/><i>Bioethanol to BioLPG and Bio-monoaromatics: Learnings from a 1 inch reactor</i></p> <p><b>Diffo Téguia</b> (NRCAN, Canada)<br/><i>Evaluating Renewable Liquid Fuel Pathways: Integrating Sustainability and Policy Impact Assessment</i></p> |
| <b>October 24<sup>th</sup>, 15:30 – 16:00</b>   | <b>Room: Américas</b>   |
| <b>Coffee Break</b>   |   |
| <b>October 24<sup>th</sup>, 16:00 – 17:00</b>   | <b>Room: Theater</b>  |
| <b>Closing Ceremony</b>   |   |
| Announcement of BBEST Awards for the best posters   |   |