

Workshop Trondheim

IRinGIFT

 NTNU  STU

22nd February 2024











- 9:00  Workshop opening
Juma Haydary
- 9:20  Biomass to Electricity, Heat and Hydrogen (BEHHYD): An integrated biorefinery concept for energy decarbonization
Richard Ochieng
- 9:40  Techno-economic evaluation of incineration, gasification and pyrolysis of refuse derived fuel
Matej Koritár
- 10:00  Membrane Crystallization – Methods of Yield Increasing
Ester Komačková
- 10:20  Safety and economic assessment of plastic waste pyrolysis
Samuel Gombár
- 10:40  Coffee/tea break
- 11:00  Desalination of Salty Wastewater from Highways: ZLD Pilot Concept
Lukáš Sedlák
- 11:20  Kinetic and thermodynamic investigation of densified refuse-derived fuel (d-RDF) using iso-conversional model-free methods
Mohammad Ali Nazari
- 11:40  Modelling of a fuel-assisted power- and biomass-to-liquid process
Samuel M. Krämer
- 12:00  Greening the Future: A Sustainable Approach to Cooling Water and Energy in Student Labs
Emilia-Jana Paleš
- 12:20  Techno-economic analysis of off-grid and on-grid PV-system using Pvsyst
Sara Clegg
- 12:40  Lunch
- 14:00  Tour to NTNU campus, Trondheim

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- 9:00  Introduction to Life Cycle Assessment
Angela Daniela
- 9:20  Life-cycle assessment for the blade of OFWTs (Offshore floating wind turbines)
Nazar Umushchenko
- 9:40  Utilization of Waste Concrete Powder as an Emerging Cementitious Material via CO₂ Mineralization
Hamideh Mehdizadeh
- 10:00  Modern tools for sustainable development: A case of LNG production
Patrik Furda
- 10:20  **Coffee/tea break**
- 10:40  Position of Hydrogen as an Energy Carrier in Slovakia
Dominika Kraviarová
- 11:00  Separation of Hydrogen and Natural Gas
Maroš Križan
- 11:20  Evaluation of biogenic carbon in the production of FeSiB phase change material (PCM) for thermal energy storage using LCA
Andrea P. Helåsen
- 11:40  Lunch
- 12:30  Visit to Stjørdal district heating plant, Trondheim
(Return bus trip from Radisson Blu Hotel)

