

Industrial Forest Biotechnology Research group

Prof. Ari Pappinen

Prof. emer. Paavo Pelkonen

Theme: Novel products, value chains and business models for bio-based industries from short rotation plants, industrial side streams and wood associated fungi

Group members

Senior researchers

Dr. Kamrul Hassan: Industrial side streams, their availability, use and biorefining sustainability

Dr. Markku J. Huttunen: Microbiological gasification of biomass; Short rotation plants; Wood associated fungi

Dr. Laura Kupiainen: Chemical process engineering; Bio-refining process concept modelling

Dr. Aki Villa: Short rotation plants and their novel use

Dr. Anas Zyadin: Reliability and acceptability of biomass-based energy industries

PhD-students

Ira Bhattarai: New value chains, economic feasibility and business concepts on bio-based industry

Erik Kaipainen: Short rotation plants and their novel use

Suvi Kuitinen: Novel products and value chains from short rotation biomass and wood associated fungi

Sylas Lau: Novel products from wood associated microbes and fungi

Saila Mahilainen: Novel products from wood associated microbes and fungi

Mohammed Mohsin: Short rotation plants and their novel use

Karthikeyan Natarajan: Modelling and value chain analysis of biomass-based energy industries

Mir Salam: Short rotation plants and their novel use

Sandra Sandar: Novel products from forest industry side streams

Matti Tweshiningilwa: Short rotation plantations and their sustainability

Projects

1. Development of efficient biomass conversion routes for biofuel production and utilization (CONVER-B)
2. Sustainable production concepts on integrated biorefining industry
 - Financed by Academy of Finland
3. Value change in biorefining
 - Financed by Centre for Economic Development, Transport and the Environment (ELY Centre)