

# Bio4Energy Researchers' Meeting

21-22 May at Piteå

[Kust Hotell](#)

## Bio4Energy Process Tracks & System Perspectives

- 12 p.m. *Lunch at "Festväningen"*
- 1 p.m. **Introduction and New Developments** – Dan Boström, Bio4Energy Programme Manager and Ulrika Rova, Bio4Energy Vice Programme Manager
- Bio4Energy's Process Tracks**
- 1:15 **Thermal Conversion of Biomass** – Bio4Energy Thermochemical Conversion Technologies
- Modern Developments in Entrained-flow Gasification of Biomass for Syngas Applications – Overview by Rikard Gebart, professor (20-minute presentation + 10-minute discussion)
  - Topics (5-minute presentation + 5-minute discussion/student):
- 1:45 Alkali Catalysed Gasification – Albert Bach, PhD Student
- 1:55 Household Bioenergy Transitions with Alternative Biomass Feedstocks and Technologies in Sub-Saharan Africa – Ricardo Carvalho, Postdoctoral Researcher
- 2:05 Camera and Laser-based Diagnostics Relevant for Entrained-flow Gasifiers – Yngve Ögren, PhD Student
- 2:15 Stimulated Raman Spectroscopy Fused with Digital Holography: a Versatile Optical Tool for Bio4Energy – Kerstin Ramser, Professor
- 2:30 **Mini Symposium: Synchrotron Research for Bio4Energy Researchers** – Researchers Nils Skoglund, Bio4Energy Environment and Nutrient Recycling and Mikael Thyrel, Bio4Energy Wood Pre-processing
- 3:10 p.m. *Coffee or tea break*
- Bio4Energy's Process Tracks continued**
- 3:40 **Biochemical Conversion of Biomass** – Bio4Energy Biochemical Conversion Technologies
- Current Progress of Biopolymers and Biochemical Conversion Technologies – Overview by Ulrika Rova, Professor (15-minute presentation + 5-minute discussion)
  - Topics (5-minute presentation + 5-minute discussion/student):
- 4:00 Lytic Polysaccharide MonoOxygenases and Their Role in Depolymerisation of Lignocellulose – Madhu Nair Muraleedharan, PhD Student
- 4:10 Preparation of Modified Cellulose Nanofiber CO<sub>2</sub> Absorbents – Jiayuan Wei, PhD Student
- 4:20 **Bio4Energy Graduate School**
- Biorefinery Pilot Research: Course Updates, Francesco Gentili, BPR Course Coordinator
  - Dissemination of Information about the Graduate School, Ulrika Rova, Bio4Energy Coordinator for Education
- 4:35 **Preview of Bio4Energy Workshop on Life-cycle Analysis of Bio-based Processes and Products**  
Preview of Contents and Call to Think Ahead – Researcher Dimitris Athanassiadis and PhD Student Kavitha Shanmugam, both Bio4Energy System Analysis and Bioeconomy
- 4:50 p.m. Summary of Day 1 and outline of Day 2 – Dan Boström
- 7 p.m. *Dinner at "Festväningen"*

# Bio4Energy Researchers' Meeting

## 21-22 May at Piteå

### [Kust Hotell](#)

- 9 a.m. **Bio4Energy Traits Database** – How to Access Data and Example of a Project Underpinned by Such Data, Sven-Olof Lundqvist, Consultant, Bio4Energy Feedstock (20-minute presentation + 10-minute discussion)
- 9:30 **Workshop: Life Cycle Analysis of Bio-based Processes and Products** – Researcher Dimitris Athanassiadis and PhD Student Kavitha Shanmugam, both Bio4Energy System Analysis and Bioeconomy
- System's thinking and LCA: Interactive session with demonstration of an LCA case study
- 10 a.m. *Coffee or tea break*
- 10:30 **Workshop: Life Cycle Analysis of Bio-based Processes and Products** continued
- Usefulness of LCA results for Bio4Energy researchers
  - Interactive session with the LCA team
  - Wrap-up of the learning outcomes
- 11:45 **Summary and Final Discussion** – Dan Boström and Ulrika Rova, Bio4Energy programme management
- 12 p.m. *Lunch at "Festväningen"*

***We look forward to seeing you at Piteå!***

Bio4Energy Spring 2018 Researchers' Meeting

[Dan Boström](#), Bio4Energy Programme Manager

[Ulrika Rova](#), Bio4Energy Vice Programme Manager

[Anna Strom](#), Bio4Energy Communications



**BIO4ENERGY**

C/O UMEÅ UNIVERSITY, SE-90187 UMEÅ

Phone: +46 73 905 2239 (Anna Strom)

E-mail: [info@bio4energy.se](mailto:info@bio4energy.se)

[www.bio4energy.se](http://www.bio4energy.se)