



KETJU ANNUAL SEMINAR 2009

Time: 10.-11.2.2009

Place: SUOMENLINNA SEA FORTRESS, PIRUNKIRKKO, Helsinki

Registration: www.academyevents.fi with keycode : suomenlinna

PROGRAMME 10.2.2009

10:00 Ferry from Market Square (HKL ferry), info: http://aikataulut.ytv.fi/linjat/fi/hLautta_Kauppatori.html

10:45 Registration and lunch at Restaurant Suomenlinnan Panimo

12:30 Keynote speaker Art Ragauskas - *Transformational Forest Biorefineries: Opportunities and Challenges*

13.30 Academy of Finland and KETJU programme - Saila Karvinen, Programme Manager

14:00 – 14:30 COFFEE BREAK

14:30 - TWO PARALLEL SESSIONS

Environmental issues – Chair, Professor Riitta Keiski, University of Oulu

- 14.30-15.00 Pekka Kauppi – University of Helsinki
IFEE (Indicator Framework for Eco-efficiency)
- 15.00-15.30 Jouni Korhonen and Matti Melanen – University of Tampere and Finnish Environment Institute
ISSB (Industrial Symbiosis System Boundaries)
- 15.30-16.00 Kari Heiskanen – Helsinki University of Technology
ProDOE (Pro-environmental Product Planning in a Dynamic Operational Environment Now and in the Future-Methods and Tools)
- 16.00-16.30 Markku Tykkyläinen – University of Joensuu
SUSWOOD(Sustainable and Eco-Friendly Wood Material for Future Industrial Needs)
- 16.30-17.00 Piia Rytilahti – University of Lapland
SUMAC (Sustainable Innovative Materials in High Tech Applications. An Interdisciplinary Approach to Design, Engineering Technology and Chemistry of Environmentally Sound Products and Production)



Biorefinery – Chair, Saila Karvinen, Academy of Finland

- 14.30-15.00 Laura Salusjärvi – VTT Technical Research Center of Finland
Improvement of Xylose Utilisation for Bioprocesses
- 15.00-15.30 Laura Ruohonen - Technical Research Center of Finland
PENTOVAL (Biotechnological production of pentanoic acids from sidestreams of biorefineries based on agrobiomass)
- 15.30-16.00 Kirsti Parikka and Ann-Sofie Leppänen – University of Helsinki and Åbo Akademi University
FunMan (Targeted Functionalization of Spruce Galactoglucomannans with Aid of Galactose Oxidase)
- 16.00-16.30 Marja Lajunen - University of Oulu
SusProc (Sustainable Processing of Natural Resources)
- 16.30-17.00 Kaisa Lamminpää – University of Oulu
PEGRES (Paper, Bioenergy and Green Chemicals from Nonwood Residues by a Novel Biorefinery)

17:00 - 18:30 SOCIAL PROGRAMME OUTDOORS

18:45 – Dinner at Restaurant Suomenlinnan Panimo

21:00 or 22:00 - Ferry back to Market Square

PROGRAMME 11.2.2009

10:00 Ferry from Market Square (HKL)

Green processes and methods – Chair, Professor Riitta Keiski, University of Oulu

- 10.30-11.00 Jyri-Pekka Mikkola – Åbo Akademi University
CO2UTIL (Towards Utilization of Carbon Dioxide as a Green and Versatile Commodity Chemical: Clean Synthesis of Methanol and Dimethyl Carbonate (DMC))
- 11.00-11.30 Risto Harjula – University of Helsinki
FSE_IX (Fast, Selective and Ecological Ion-exchange Materials for Hydrometallurgy)
- 11.30-12.00 Riitta Keiski – University of Oulu
SUSE (Sustaining carbonic esters synthesis with carbon dioxide feedstock)
- 12.00-12.30 Marko Virta – University of Helsinki
Chemical Testing by Molecular Biological Methods

Green chemistry- Chair, Professor Johanna Buchert, VTT

- 10.30-11.00 Larisa Oresmaa – University of Joensuu
CO2 GREEN Carbon dioxide as a green carbon source in transition metal catalyzed syntheses
- 11.00-11.30 Marco Casteleijn and Mikko Salin - University of Oulu
BIOCAT (Modular Biocatalyst Platform for Chiral Synthesis of Chemical Compounds by Structure-based Directed Evolution)



- 11.30-12.00 Afnan Al-hunaiti – Helsinki University of Technology
NADREDOX (Enhanced Organocatalyzed Redox Processes for Sustainable
Chemical Synthesis)
- 12.00-12.30 Carl-Erik Wilen – Åbo Akademi University
Design of Novel Non-halogenated Flame Retardants

12:30 Closing of the seminar

13:00 Lunch at Restaurant Suomenlinnan Panimo



SUOMEN AKATEMIA
TIETEEN RAHOITTAJA JA ASIAANTUNTIJA