KBC DAYS 2016
8-9 November, KBC-building

Programme - Abstracts - Research Infrastructures
DAY 1, 8th November

8.30-9.00  Registration

9.00-9.15  Welcome and introduction, update
Per Gardeström, professor Scientific coordinator for KBC

9.15-9.30  The Interactive Focus Environment at KBC
Ellen Skånberg, Building Office Umeå University

9.30-10.00  Awardees 2016
Baltics collaboration prize 2016
Fredrik Almqvist, Chemistry

The Faculty’s collaboration prize 2016
Mats Tysklind, Chemistry

Scandinavian Plant Physiology Early Career Award
Nathaniel Street, UPSC, Plant Physiology

10.00-10.30  Coffee break

10.30-10.45  Industrial Graduate Programme/Företagsforskarskola
Anna Linusson Jonsson, director

10.45-11.00  Outreach Example - Forskarfredag- The Teabag Experiment
Judith Sarneel, Ecology and Environmental Science

11.00-11.45  Update - Existing Research Centres / Projects
EcoChange
Agneta Andersson

Bio4Energy
Dan Boström

Trees and Crops for the Future, TC4F
Annika Nordin

11.45-12.45  Lunch

12.45-13.15  KBC – from the perspective of a Vice-Chancellor and a chemist
Hans Adolfsson, Vice-Chancellor Umeå University

13.15-14.30  New Faculty Members
Trophic dynamics and food webs of freshwater ecosystems under the changing environment
Danny Chung Pong Lau, Ecology and Environmental Science

A new framework for understanding carbon sink and its sensitivity
to climate change in high latitude lakes
Cristian Gudasz, Ecology and Environmental Science

**Cell wall remodelling during ectomycorrhiza development**
Judith Felten, UPSC, Forest Genetics and Plant Physiology

**Laser-based breath gas analysis and biomass combustion diagnostics**
Florian Schmidt, Applied Physics and Electronics

**Understanding the G-quadruplex genome**
Nasim Sabouri, Medical Biochemistry and Biophysics

**Time-resolved photography of electron motion**
László Veisz, Physics

*Chairperson: Anna Arnqvist*

**14.30-15.00**  
**Midterm PhD students present their PhD project in 2 minutes**

**Screening and prioritization of domestic water contaminants and their removal in on-site sewage treatment facilities**
Kristin Blum, Chemistry

**Quantifying hazardous off-gassing during storage of thermally treated biomass - Safety implications along the logistic chain**
Eleonora Borén, TFE

**Real-time breath CO detection using ICL- and EC-QCL-based TDLAS**
Ramin Ghorbani, TFE

**Optical studies of biomass particles during rapid thermo-chemical conversion**
Per Holmgren, TFE

**Devices and Mechanisms for Artificial Photosynthesis**
Anurag Kawde, Chemistry

**Study of transcriptome and replication of Schizosaccharomyces pombe in absence of Pfh1 helicase and Topoisomerase I**
Pourbozorgi Langroudi Parham

**Preparation of Imprinted Monolithic Capillary Columns for the Recognition of Phosphorylated Serine**
Mingquan Liu, Chemistry

**Epidermal pavement cells display heterogeneous cell walls**
Mateusz Majda

**Phenothiazine-Based chromophores for Organic Solar Cells and Perovskite Solar Cells**
Srikanth Revoju, Chemistry

**Method development for non-target screening of sewage sludge using comprehensive two-dimensional gas chromatography - high-resolution mass spectrometry**
Cathrin Veenaas, Chemistry

Understanding chemical and structural factors affecting the recalci-
trance of woody plants
Zhao Wang, Chemistry

Thin Ice Films at Mineral Surfaces
Merve Yesilbas, Chemistry

15.00-15.45 Poster session and Coffee break

15.45-17.00 Chairperson: Stefan Jansson
New Research Projects within the KBC environment
Epigenetic and Metabolic Control of Flowering Time
Markus Schmid, UPSC, Plant Physiology

Climate change induced regime shifts in Northern lake ecosystems
Jan Karlsson, Ecology and Environmental Science

Forest biology and biotechnology
Ove Nilsson, UPSC, Forest Genetics and Plant Physiology

Green North-Innovation Platform “Green Technologies”
Mats Tysklind, Chemistry

Nanowood
Totte Niittylä, UPSC, Forest Genetics and Plant Physiology

17.00-18.00 Poster session

18.00 Dinner and Presentation of the KBC Poster Award 2016

DAY 2, 9 November: FUNDING and INFRASTRUCTURES
Chairperson: Lars Lövgren
9.00-9.45  Funding and funding organisations in Northern Sweden
Grants Office

9.45-9.55  CBRNE Centre
Per-Erik Johansson, director

9.55-10.25  Coffee

Chairperson: Sebastian Diehl
SITES - Swedish Infrastructure for Ecosystem Science

10.25-11.25  Enabler for cutting edge field-based research in terrestrial and limnological ecosystems
Anders Lindroth, director, SITES

How can SITES support you as a researcher - from idea to publication
Jenny Viklund, field research station manager, Röbäcksdalen
Charlotte Erefur, field research station manager, Svanberg

Infrastructures within SITES - SITES Water and SITES Spectral
Leif Klemedtsson, coordinator SITES Water, field research station manager, Skogaryd

11.25-12.00  Organisation and Concept of Scientific Methods Service Facilities:
The Biochemistry Core Facility at the MPI of Biochemistry as an Example
Stephan Uebel, Max Planck Institute of Biochemistry, Munich/Martinsried, Germany

12.00-13.00  Lunch and poster session

13.00-14.00  News from the KBC Core Facilities
Biochemi

14.00-15.00  Tour to the infrastructures (max 2 infrastructure tours per person) and Coffee break
Participants at the tours: Meet at the poster of the infrastructure

15.00-16.30  Chairperson: Per Gardeström
Workshop - Scientific Infrastructures
Service - Research - Methods - Education
Note! This workshop is mainly for personnel of research infrastructures, managers, steering boards and directors, and people who work with questions related to the organisation of infrastructures. Please contact Eva-Maria Diehl, by Email, if you wish to participate.