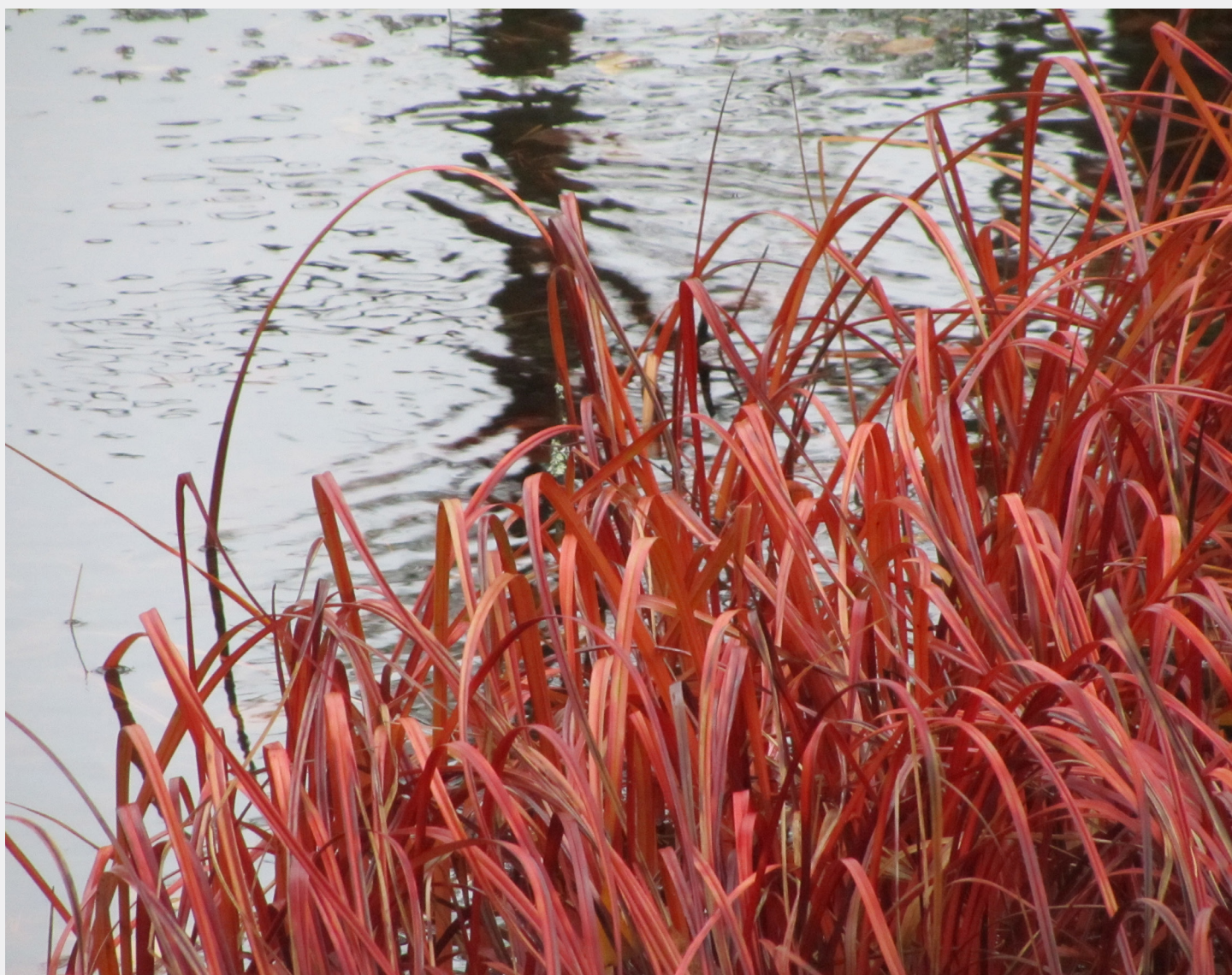


Kemiskt Biologiskt Centrum KBC
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KBC DAYS 2016

8-9 November, KBC-building

Programme - Abstracts - Research Infrastructures



DAY 1, 8th November

8.30-9.00 **Registration**

9.00- 9.15 *Chairperson: Per Gardeström*

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*

Chairperson: Richard Bindler

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**

Chairperson: Elisabeth Sauer-Eriksson

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 Gudas, 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 recalcification

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, Svartberget
- 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.