



**PAN EURASIAN EXPERIMENT (PEEX)**

– TOWARDS A NEW MULTINATIONAL, MULTIDISCIPLINARY

CLIMATE, AIR QUALITY AND ENVIRONMENT

RESEARCH EFFORT IN ARCTIC AND BOREAL

PAN-EURASIAN REGIONS

## AGENDA

### 3rd Meeting on Pan-Eurasian Experiment (PEEX) Hyytiälä, 26-28 August, 2013

#### SUNDAY 25. AUGUST

- Arrival meeting participants to Helsinki
- Bus transport from the airport to Hyytiälä Field station / Hotel Orivesi

#### MONDAY 26. AUGUST

- 09:30 Registration - Institute building
- 10:00 Introduction to SMEAR science concept, M. Kulmala
- 11:00 Lunch
- 12:00 Visit to SMEAR II station, M. Kulmala, T. Petäjä, J. Bäck, T. Vesala
- 13:30 Coffee break**
- 14:00 Presentations – Introduction to
- aerosol measurements, T. Petäjä
  - flux measurements & ICOS, T. Vesala
  - radar measurements, D. Moiseev
  - ecological measurements, J. Bäck
  - soil measurements, J. Pumpanen
  - urban SMEAR, L. Järvi
- 15:15-16:00 Dinner (Cafeteria, Hyytiälä)**
- 16:00 **OPENING OF 3RD PEEX WORKSHOP, Markku Kulmala, Univ. Helsinki**
- aim of this workshop
  - Introduction of participants
  - PEEX Vision & large scale research questions, M. Kulmala Univ. Helsinki
  - Introductory words and satellite remote sensing in PEEX, Valeriy Bondur, AEROCOSMOS
  - PEEX initiative overview – Science Plan status, Hanna.K. Lappalainen and Tuukka Petäjä, Univ. Helsinki

#### **17:15 SESSION FOCUS AREA -1: PEEX RESEACH AGENDA, chair Sergej Zilitinkevich FMI**

##### **20 min presentations**

- Atmosphere –terrestrial biosphere interaction, Timo Vesala Univ.Helsinki
- Nex It-Ru project relevant to PEEX, Francesco Tampieri Univ. Bologna
- Application of remote sensing methods for monitoring inland water bodies., Yuliya Troitskaya Nizhny Novgorod

##### **18:00 short coffee break**

- On lake and inland water problems in PEEX, Shamil Pozdnyakov, Dmitrii Subbetto and Arkady Terzhevuk, Northern Water Problems Institute, Karelian Research Cente, RAS
- Biogeochemistry of soil, Valery Kudenyarov, Inst Physical-Chemical & Biological problems Soil Science RAS
- Stable atmospheric boundary layer, Sergej Zilitinkevich Finnish Met. Inst.
- Electromagnetic weather, Evgeny Mareev, Inst. Applied Physics, RAS
- Emissions over Russia, Natalia Chubarova, Moscow State University



**PAN EURASIAN EXPERIMENT (PEEX)**

– TOWARDS A NEW MULTINATIONAL, MULTIDISCIPLINARY

CLIMATE, AIR QUALITY AND ENVIRONMENT

RESEARCH EFFORT IN ARCTIC AND BOREAL

PAN-EURASIAN REGIONS

- PEEX in Ukrainian perspective, Roman Kharitonov, Environmental Invest Agency of UA cabinet of Ministries

**10 min presentations**

- Atmospheric black carbon, Olga Popovicheva, Institute of Nuclear Physics, Moscow State University
- In monitoring of atmospheric aerosols and gas components, Sergei Dubtsov, Institute of chemical kinetics and combustion SB RAS

- 20- Bus back to Hotel Orivesi
- 20- Sauna
- 21- Evening snacks (Cabinet)
- 22- Bus back to Hotel Orivesi

**TUESDAY 27. AUGUST**

08:00 Bus leaves from Hotel Orivesi

**08:30 SESSION FOCUS AREA -2: PEEX RESEARCH INFRASTRUCTURE, chair T. Petäjä**

**20 min presentations**

- Inventory of RAS observational stations over Siberia & International Polar Year 2007-2008, Nina Zaytseva, Dept. of Earth Sciences, RAS
- Tomsk observation programme and research within the PEEX research agenda, Egor Dyukarev, Institute of Monitoring of Climatic and Ecological Systems SB RAS
- The Status of Research on Aerosol Property Retrieval from Satellite Data in China, Yong Xue, Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences
- The PEEX Research Proposal from the China Science Center of IEAS/Chinese Academy of Sciences, Zhang Jiahua, Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences

**09:50 SESSION FOCUS AREA -3: PEEX SOCIETY DIMENSION, chair Anatoly Shvidenko**

**20 min presentations**

- Man-induced Environmental Risks: Monitoring, Management and Remediation of Man-made Changes in Siberia, Alexander Baklanov, DMI
- Development of a unified information background for the PEEX domain & Development of an Integrated Land Information System for the PEEX domain, A. Shvidenko IIASA
- Mitigation and adaptation within the PEEX research agenda Sirkku Juhola, Univ. Helsinki

**10:50- SESSION FOCUS AREA -4: PEEX KNOWLEDGE TRANSFER, chair H. Lappalainen**

**15 min presentations**

- Introduction to CBACCI; ABS, CRAICC workshop & summer/winters school, T. Ruuskanen Univ. Helsinki  
discussion

**11:15- SESSION INTERNATIONAL NETWORKS, chair Hanna Lappalainen**

**15 min presentations**

- Building on Global Earth Observation System and Systems : GEO Cold Regions Initiative ---- the potential interactions with PEEX, Yubao Qiu, Group on Earth Observations (GEO9 Secretariat)



**PAN EURASIAN EXPERIMENT (PEEX)**

– TOWARDS A NEW MULTINATIONAL, MULTIDISCIPLINARY

CLIMATE, AIR QUALITY AND ENVIRONMENT

RESEARCH EFFORT IN ARCTIC AND BOREAL

PAN-EURASIAN REGIONS

**11:30-12:30**

**Lunch**

**12:30- SESSION INTERNATIONAL NETWORKS continues, chair T. Petäjä**

**15 min presentations**

- The role of the PanEurasian initiative in the global framework of GAW, O. Tarasova WMO
- Development of Integrated Observation Platforms (IOP) in critical regions of climate system: Three cases in China Aijun Ding, Institute for Climate and Global Change Research, Nanjing University
- Introduction to the European Strategy Forum on Research Infrastructures (*ESFRI*)-incl. EU-FP6-ACTRIS – Paulo Laj, CNRS LGGE

**13:30- SESSION POTENTIAL SUPPORTING MECHANISMS AND INSTRUMENTS, chair M. Kulmala**

**15 min presentations**

- European Union - JPI- Climate call, Sanna Sorvari FMI discussion

**14:00-14:30**

**Coffee break**

**14.30 Transforming PEEX Science plan into Implementation Plan, T. Petäjä, H.K. Lappalainen**

- Introduction to Implementation Plan

**14:50 PARALLEL SESSIONS OF WORKING GROUPS (1-4) WITH A FOCUS ON PRACTICAL IMPLEMENTATION**

**All WGs:**

- Comments to science plan on topical balance
- Any missing components / topics?

**WG-1 Research**

- Comments on large scale research questions
- Connections to existing research programs

**WG-2 Infra**

- Comments on existing collaborative networks
- Most potential candidates for site upgrades: existing infra + geographical representativeness
- Satellite observations
- Initial drafting of PEEX Infrastructure Program

**WG-3 Society**

- What are the key connections between the society and potential outcomes from the PEEX research?
- Connections to PEEX research infrastructures

**WG-4 Knowledge transfer**

- Updated education collaborations
- Practical suggestions for PEEX courses with tentative schedule
- Initial drafting of PEEX education Program



**PAN EURASIAN EXPERIMENT (PEEX)**

– TOWARDS A NEW MULTINATIONAL, MULTIDISCIPLINARY

CLIMATE, AIR QUALITY AND ENVIRONMENT

RESEARCH EFFORT IN ARCTIC AND BOREAL

PAN-EURASIAN REGIONS

**17:00-18:00 Presentations from Working Groups, Rapporteurs**

WG-1: Research agenda chair S. Zilitinkevich FMI

- Reporters: NN, NN, NN; VM.Kerminen

WG-2: Infrastructures chair T. Petäjä

- Reporters: P.Laj, A. Wiedensohler, H. Lihavainen

WG-3: Society Dimension, chair A. Shvidenko

- Reporters: NN, J. Kujansuu

WG-4: Knowledge Transfer & International Networks chair H. Lappalainen

- Reporters: NN, T. Ruuskanen

- Summary of the day, M. Kulmala

18:30 - Boreal Dinner

20:00 - Sauna

24:00- Bus to Hotel Orivesi

**WEDNESDAY 28. AUGUST**

08:30 bus from hotel Orivesi to Hyytiälä

09:00-11:00 Next steps

- PEEX Science Plan
- Implementation Plan
- Funding applications

Next meeting

11:00-12:00 Lunch

Closing of the Workshop

Transport to airport / Helsinki from Hyytiälä at 12:30→