

Minutes of the PEEEX Meeting in Beijing

Beijing, China

November 20-21, 2013

**Hosted by the Institute of Remote Sensing and Digital Earth, CAS and China
Science Center of International Eurasian Academy of Sciences**

Co-hosted by

PEEX Programme

University of Helsinki, Finland

**“AEROCOSMOS”, Ministry of Education and Science of the Russian Federation
and Russian Academy of Sciences**

The PEEEX meeting took place at the Institute of Remote Sensing and Digital Earth (RADI), Chinese Academy of Sciences (CAS) from Nov 20-21, 2013 (See Annex 1 for the list of participants). The agenda of the meeting is attached as Annex 2.

Day One was a closed-door meeting with representatives from Russia, Finland and China present. As the PEEEX Programme develops, there will be an increased emphasis on China's contributions to the PEEEX programme, as well as multi-national level and long-term research collaboration. These points of interest will be addressed and developed for consideration by the Co-Chairs and PEEEX Programme.

Day Two was devoted to 12 scientific presentations by researchers from the Russia, Finland and China. Those oral presentations are listed as below:

1. Oral Presentations

1) Russia

- PEEEX / Possibilities of the application of space methods in the interests of PEEEX *by Valery G BONDUR*
- Some notes on the scientific goals of PEEEX and participation of Russian scientific clusters in the project *by Evgeny MAREEV*

2) Finland

- PEEEX and Grand Challenges *by Markku Tapio KULMALA*
- Establishing a process towards high level Pan-Eurasian atmosphere-ecosystem networks *by Hanna Katriina LAPPALAINEN*
- A new research initiative focused on the northern Pan-Eurasian region *by Tuukka Taneli PETÄJÄ*
Atmospheric Planetary Boundary Layer by Sergej von Zilitinkevich

3) China

- Global Change study and potential contribution to the PEEEX *by GUO Huadong*
- Pan-Eurasia environmental information satellite inversion and application *by ZHANG Jiahua*
- The response of terrestrial ecosystem to global change in pan –Eurasian *by HUANG Mei*
- Feedbacks of terrestrial ecosystem to climate change and management in terms of C and N exchanges, productivity *by ZHENG Xunhua*
- SORPES- an integrated platform for observing regional processes of the earth system at Yangtze River Delta, China *by NIE Wei*

2. Research focuses from PEEEX:

- Future Earth: Arctic, and boreal region --Regional node
- Aerosol comparison of mega-city from EU, Russia and China
- Ecosystem, e.g. Agriculture and forestry, LUCC
- Water cycle
- Carbon and nitrogen processes over PEEEX regions, fire and drought detecting
- Energy production
- Multidisciplinary approach, including observation from different platform and modeling
- Beautiful China
- “Silk Road Economic Zone”

3. Activities

An emphasis of joint collaboration should be made on the PEEEX Science Plan

- Pan-Eurasian observation station network
- Remote sensing and multi-scale modeling
- PEEEX education programme
- To finalize the science plan
- Contribute to the implementation plan

Agreements and Action Items

1. It was agreed that the two-day meeting is fruitful, and rich in science content. Attendees had an extensive discussion and fully exchanged their ideas on PEEEX programme. Some new ideas were proposed, and actions were suggested to be taken.
2. It was agreed by all that a joint effort should be made to seek the additional funding to support the further development of PEEEX programme.

3. It was agreed to establish PEEEX China responsible for coordinating different organizations in China, and set up a PEEEX Beijing Office, which is hosted by the Institute of Remote Sensing and Digital Earth (RADI), the Chinese Academy of Sciences (CAS).
4. It was agreed that Prof. Guo Huadong, Prof. Li Chongyin and Prof. Peng Gongbing are taking the leading responsibilities for the PEEEX activities in China.
5. The next PEEEX Meeting will be held in Saint Petersburg, Russia in 5-6 March, 2014.

(The end)

A handwritten signature in blue ink, appearing to read 'Guo Huadong', is written across the page. The signature is fluid and cursive, with a long horizontal stroke at the beginning and a large loop at the end.



Annex 1

PEEX Meeting in Beijing

Closed-Door Meeting

Beijing, China,

20 November 2013

AGENDA

WEDNESDAY, 20 NOVEMBER		
13:30 – 14:30	Tour to RADI New Tech Campus ✧ Digital Earth Science Platform ✧ Airborne Remote Sensing Center ✧ Satellite Receiving System ✧ Int'l Cooperation Platform	<i>LI Zhen HUANG Peng LIU Jie</i>
(CLOSED-DOOR MEETING) LOCATION: ROOM 714, NEW TECH CAMPUS, RADI		
Chair: Valery Bondur Vice-Chair: Markku Kulmala, GUO Huadong		
14:30 – 14:45	Opening of Meeting and Approval of Agenda	<i>Valery BONDUR</i>
14:45 – 15:00	Introduction to PEEX Project	<i>Markku Tapio KULMALA</i>
15:00 – 17:30	Discussion	
18:00 –	BANQUET host by CSCIEAS	



List of Participants

Name	Affiliation	E-mail
Valery G. Bondur	AEROCOSMOS Research Institute for Aerospace Monitoring	vgbondur@aerocosmos.info
Mareev Evgeny	Institute of Applied Physics of the Russian Academy of Sciences	
Mikhail A. Shakhraman yan	AEROCOSMOS Research Institute for Aerospace Monitoring	
Markku Tapio Kulmala	University of Helsinki	markku.kulmala@helsinki.fi
Tuukka Taneli Petäjä	University of Helsinki	tuukka.petaja@helsinki.fi
Sergej von Zilitinkevich	Finnish Meteorological Institute	Sergej.Zilitinkevich@fmi.fi
Hanna Katriina Lappalainen	University of Helsinki	hanna.j.lappalainen@helsinki.fi
Joni Tapio Kujansuu	University of Helsinki	joni.kujansuu@helsinki.fi
Li Chongyin	Institute of Atmospheric physics, Chinese Academy of Sciences	lcy@lasg.iap.ac.cn
Guo Huadong	Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences	hdguo@ceode.ac.cn
Peng Gongbing	China Research Center of International Eurasian Academy of Sciences	penggongbing@163.com
Liao Ke	China Research Center of International Eurasian Academy of Sciences	liao_ke@263.net
Zhang Jiahua	Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences	jhzhang@ceode.ac.cn
Xue Yong	Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences	yxue@irsa.ac.cn



Annex 2

PEEX Meeting in Beijing

Beijing, China,

21 November 2013

AGENDA

THURSDAY, 21 NOVEMBER		
LOCATION: ROOM 504, OLYMPIC CAMPUS, RADI		
Chair by: Valery BONDUR, GUO Huadong		
09:00 – 09:20	Welcome Remarks Opening Remarks	<i>GUO Huadong</i> <i>Valery G. BONDUR</i> <i>Markku Tapio KULMALA</i> <i>LI Chongyin</i>
09:20 – 09:50	PEEX and Grand Challenges	<i>Markku Tapio KULMALA</i>
09:50 – 10:20	The Global Climate Change Study in China and Contribution to PEEX	<i>GUO Huadong</i>
10:20 – 10:35	T E A B R E A K	
10:35 – 11:00	PEEX/Possibilities of the Application of Space Methods in The Interests of PEEX	<i>Valery G. BONDUR</i>
11:00 – 11:25	Climate Change and Modeling	<i>JIANG Dabang</i>
11:25 – 11:50	Establishing A Process Towards High Level Pan-Eurasian Atmosphere-Ecosystem Networks	<i>Hanna Katriina</i> <i>LAPPALAINEN</i>
11:50 – 12:15	Pan-Eurasia Environmental Information Satellite Inversion and Application	<i>ZHANG</i> <i>Jiahua</i>
12:15 – 13:30	L U N C H	
Chair by: Markku Tapio KULMALA, LI Chongyin		
13:30 – 13:55	Some Notes on The Scientific Goals of PEEX and Participation of Russian Scientific Clusters in The Project	<i>Evgeny MAREEV</i>
13:55 – 14:20	The Response of Terrestrial Ecosystem to Global Change in Pan –Eurasia Region	<i>HUANG Mei</i>
14:20 – 14:35	T E A B R E A K	
14:35 – 15:00	A New Research Initiative Focused on The Northern Pan-Eurasian Region	<i>Tuukka Taneli PETÄJÄ</i>



Institute of Remote Sensing and Digital Earth Chinese Academy of Sciences

15:00 – 15:25	Feedbacks of Terrestrial Ecosystems to Climate Change and Management in Terms of C and N Exchanges, Leaching and Productivity	<i>ZHENG Xunhua</i>
15:25 – 15:50	SORPES- An Integrated Platform for Observing Regional Processes of The Earth System at Yangtze River Delta, China.	<i>NIE Wei</i>
15:50 – 17:00	Discussion	
17:30	BANQUET host by RADI	

Note: Each presentation is 20 minutes, and another 5 minutes for Q&A.



List of Participants

Name	Affiliation	E-mail
Valery G. Bondur	AEROCOSMOS Research Institute for Aerospace Monitoring	vgbondur@aerocosmos.info
Evgeny Mareev	Institute of Applied Physics of the Russian Academy of Sciences	
Mikhail A. Shakhraman yan	AEROCOSMOS Research Institute for Aerospace Monitoring	
Markku Tapio Kulmala	University of Helsinki	markku.kulmala@helsinki.fi
Tuukka Taneli Petäjä	University of Helsinki	tuukka.petaja@helsinki.fi
Sergej von Zilitinkevich	Finnish Meteorological Institute	Sergej.Zilitinkevich@fmi.fi
Hanna Katriina Lappalainen	University of Helsinki	hanna.j.lappalainen@helsinki .fi
Joni Tapio Kujansuu	University of Helsinki	joni.kujansuu@helsinki.fi
Li Chongyin	Institute of Atmospheric physics, Chinese Academy of Sciences	lcy@lasg.iap.ac.cn
Guo Huadong	Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences	hdguo@ceode.ac.cn
Peng Gongbing	China Research Center of International Eurasian Academy of Sciences	penggongbing@163.com
Liao Ke	China Research Center of International Eurasian Academy of Sciences	liao_ke@263.net
Huang Mei	Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences	huangm@igsrr.ac.cn
Jiang Dabang	Institute of Atmospheric physics, Chinese Academy of Sciences	jiangdb@mail.iap.ac.cn
Zheng Xunhua	Institute of Atmospheric physics, Chinese Academy of Sciences	xunhua.zheng@post.iap.ac.cn
Sun Junying	Chinese Academy of Meteorological Sciences	jysun@cams.cma.gov.cn
NIE Wei	Nanjing University	dingaj@nju.edu.cn
Gao Qingxian	Chinese Academy of Environmental Sciences	gaoqx@craes.org.cn



Institute of Remote Sensing and Digital Earth Chinese Academy of Sciences

Zhang Jiahua	Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences	jhzhang@ceode.ac.cn
Xue Yong	Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences	yxue@irsa.ac.cn
Li Xinwu	Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences	xwli@ceode.ac.cn
Wang Siyuan	Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences	sywang@ceode.ac.cn
Zhang Wanchang	Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences	wczhang@ceode.ac.cn