

Part II

continued



Personal impressions of  
Prof. Dr. Bernd Markert & Dr. Simone Wünschmann



24 August

# Great Wall Excursion



Caroline Ouke,  
Centre for Training and Integrated Research for  
ASAL Development, Nanyuki, Kenya, University  
Nairobi







游慕田峪长城 乘施必得滑道

索道滑道往返票  
ROPEWAY TO BOGGAN RETURN TICKET ¥120  
索道单程票  
ROPEWAY ONEWAY TICKET ¥100  
滑道  
¥100  
儿童票  
¥60







Impressions during free time in Beijing







You need a bike?  
Take it...





25 August

Suburbs of Beijing  
- on our way to the  
SOS Children  
Village in Daxing



... we love to  
see our  
German  
Car  
Production  
in China...





## Daxing

Meanwhile Bernd and I finance about 8 god-children all over the world – who we have met personally (Thailand, India, Lebanon, Israel, Palestine – 3 children in the West Bank and Gaza-Strip – as well in Jordan). We had a date with the SOS Children Village in Beijing but this time – unfortunately – we arrived at the wrong village.





26 August

城市与区域生态国家重点实验室

State Key Laboratory of Urban and Regional Ecology

北京城市生态系统研究站

Beijing Urban Ecosystem Research Station

Given Seminars at the Chinese Academy of Sciences of Beijing  
by invitation of Dr. Meie Wang





**Seminar Timetable**  
**Room 505, Building 2, RCEES, CAS.**  
**Shuangqing Road 18, Beijing**  
**(北京市海淀区双清路18号, 生态环境研究中心, 生态楼505)**

Time	Talk	Speaker
10:00 am	Introduction	Prof. Dr. Weiping Chen
10: 15 am	Information about and a virtual tour of the Environmental Institute of Scientific Networks (EISN). A scientific, international, interdisciplinary and intercultural adventure.	Prof. Dr. Bernd Markert
10:45 am	Some important concepts and related case studies of ecosystem services	Dr. Ying Hou
11:15 am	Responses and toxicological mechanisms of the earthworm <i>Eisenia fetida</i> to combined pollution of Cadmium and Siduron	Herman Uwizeyimana
11:45 am	Risk Management and Enrichment Mechanism of Cadmium in Indica Rice	Yang Yang
12:15 am -13:00 pm	Lunch	
13:00 pm	Alternative energy: A comparative international approach from a German perspective	Dr. Simone Wünschmann
14:00 pm	B & B (Bioindication and Biomonitoring) Technologies of Trace Metals – From Smaller to Megacities	Prof. Dr. Bernd Markert
15:00 pm	(Bio) monitoring by Biodiversity Research	Prof. Dr. Eun-Shik Kim
16:00 pm	Assessing the ecological risk with impervious surface based on ecosystem service	Peng Kang
16:30 pm	Impacts of urban landscape on the accumulation of heavy metals in soil in residential areas in Beijing	Tian Xie
17:00 pm	Ecological function of urban soil and its response to urbanization	Rui Liu
17:30 pm	Application of earthworm ecotoxicology in ecological risk assessment of soil contamination	Xuzhi Li





The Seminar starts...  
Introduction by Dr. Meie Wang







## About RCEES



- Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences
- **The first** comprehensive research institution engaged in research on eco-environmental science and technology in China
- **457** staff in RCEES, including **5 academicians**, **93** research professors, **114** associate professors, **108** assistant professors and **47** junior researchers
- **11 research departments** or laboratories including three state key laboratories ( State Key Laboratory of Environmental Chemistry and Ecotoxicology, State Key Laboratory of Aquatic Chemistry, **State Key Laboratory of Urban and Regional Ecology**), 8 departments for administration or management and other sections





Prof. Dr. Weiping Chen, RCEES, Chinese Academy of Sciences and Prof. Dr. Bernd Markert, Environmental Institute of Scientific Networks, Germany have already published several publications together with Dr. Meie Wang

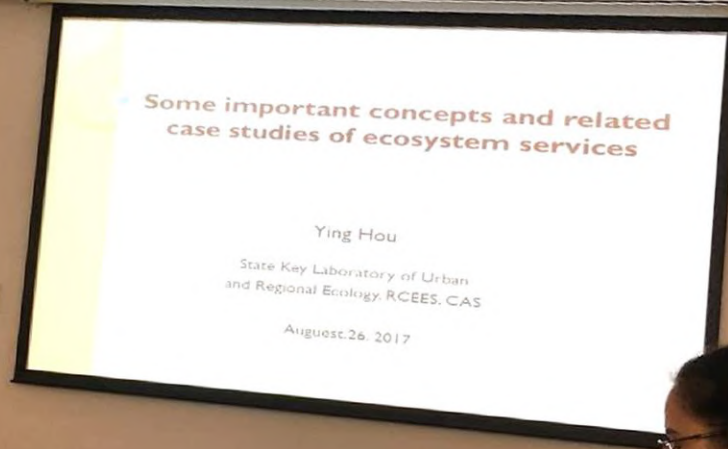




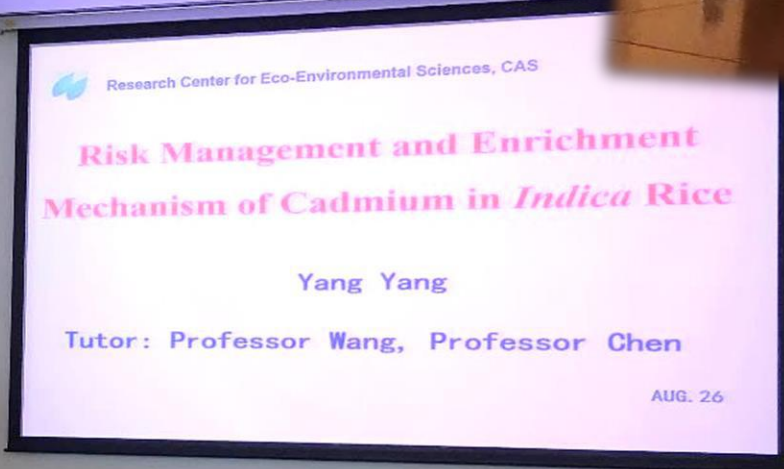
In the morning lectures of Dr. Ying Hou, Yang Yang and Herman Uwizeyimana have been given.



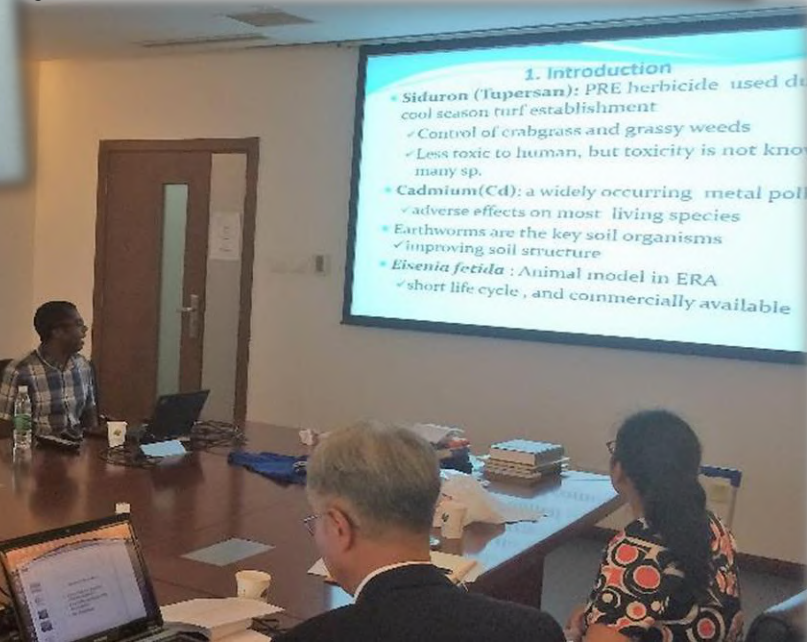
Dr. Ying Hou



Yang Yang



Herman Uwizeyimana





In the evening Dr. Simone Wünschmann  
started her lecture on Alternative Energy

# Alternative Energy - a Global Overview

Dr. Simone Wünschmann  
Prof. Dr. Bernd Markert  
Environmental Institute of Scientific Networks (EISN)  
Germany

Peking, China, 26<sup>th</sup> August 2017



Environmental Institute  
of Scientific  
Networks





Altogether 443 nuclear power plants are in operation worldwide (2010)



**Breeder reactor: More dangerous than conventional nuclear power plants**  
A breeder reactor is a nuclear reactor that generates more fissile material than it consumes.



Nuclear explosions in case of accidents and risk of explosion due to cooling with sodium, which reacts violently with air and water









# Lecture of Prof. Dr. Bernd Markert

## B & B (Bioindication and Biomonitoring) Technologies of Trace Metals – From Smaller to Megacities

Talk at the seminar of Dr. Meie Wang, August 26<sup>th</sup> at Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences

by

**Univ.-Prof. Dr. rer. nat. habil. Bernd Markert**

Environmental Institute of Scientific Networks (EISN), Germany

Fliederweg 17, D-49733 Haren, Germany; [markert@bioindication.de](mailto:markert@bioindication.de)



*With support of*

*Simone Wünschmann<sup>a</sup>*

*Meie Wang<sup>b</sup>*

*Ana Maria G. Figueiredo<sup>c</sup>*

*and many other colleagues*

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<sup>b</sup>: Research Centre for Eco-Environmental Sciences,  
Chinese Academy of Sciences, Beijing, China

<sup>c</sup>: Instituto de Pesquisas Energéticas e Nucleares  
(IPEN / CNEN - SP), São Paulo, Brazil



Megacities 2015 (UN 2002, Frauke Krass, University of Cologne, Germany)





Meie and Bernd  
knows each other  
since 2005





# Lecture of Prof. Dr. Eun-Shik Kim

Research Center for Eco-Environmental Sciences  
Chinese Academy of Sciences

26 August 2017  
生态环境研究中心  
北京市海淀区双清路18号, 生态楼505  
Room 505, Building 2  
Shuangqing Road 18  
Beijing, China

## Biodiversity Monitoring - a case study: A Real-time Observation Platform to Monitor the Changes of a Forest Ecosystem aided by Information and Communication Technology (ICT)

Eun-Shik KIM / Ph.D.<sup>1</sup>

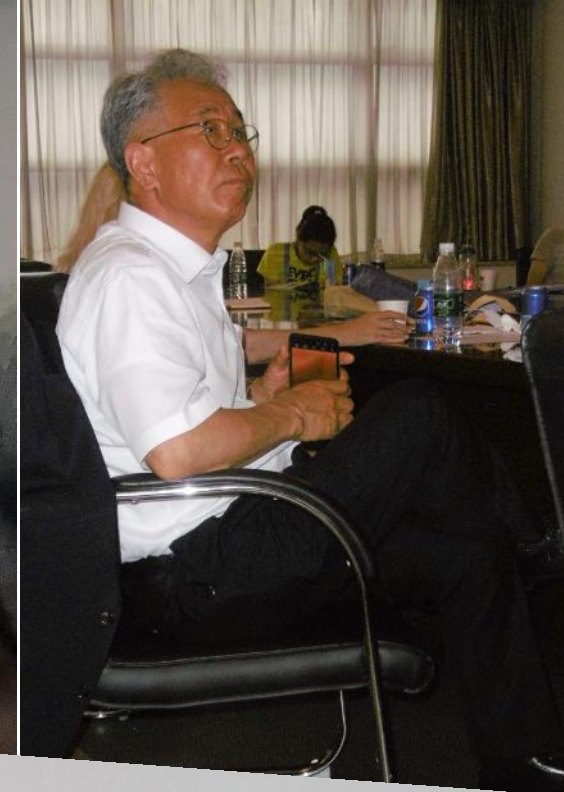
<sup>1</sup> Co-Chair, Asia-Pacific Biodiversity Observation Network (AP BON)  
President, International Association for Ecology (INTECOL)  
Professor of Ecology, Kookmin University  
Seoul, 02707 Korea  
kimeuns@Kookmin.ac.kr







Lecture of  
Peng Kang



Lecture of  
Tian Xie





Thank you all for  
that fascinating  
day with you!

Bernd, Eun-Shik &  
Simone





A special thank  
you goes to Meie  
who has invited us  
for giving the  
lectures at her  
institute! It was  
also nice to get to  
know to her  
daughter who has  
been with us in the  
seminar all day.





... and now Dinner  
is waiting...





Yang Yang and the daughter of Meie were guiding us to the restaurant. After dinner Bernd & Simone has to go directly to the airport for flying back to Germany - the flight of Eun-Shik back to Korea will go next day - but before this... you will see what happened...



















We have to say good bye to everybody and to the megacity of Beijing – it was a great time with you!

We are greeting all lovely Chinese and international people and colleagues we have got to know during our stay – see you!

Appendix: After these last pictures we had to drive to the airport – you will never guess what happened there...







... we missed our flight twice so that we „lived“ at the airport – but as compensation, we met fantastic people and had fun at that very modern airport of Beijing.







It was a great time  
joining the INTECOL  
Congress in Beijing  
with all of you - see  
you next time at the  
13th INTECOL  
Congress in Geneva,  
Switzerland!

Bernd & Simone

We hope you enjoyed our  
presentation 😊