

**Program of DFG-NSFC Symposium on „Geogenic Arsenic in the Environment”, 21.-27. September 2014, Beijing**

**(1) General overview**

Day	Activity
09/21/2014, Saturday	Flight to Beijing of German participants
09/22/2014, Monday	1. Day of symposium, presentations; Welcome dinner
09/23/2014, Tuesday	2. Day of symposium, presentations
09/24/2014, Wednesday	3. Visiting water treatment plants for arsenic/fluoride removal in the Guanting Reservoir
09/25/2014, Thursday	4. Day of symposium, presentations
09/26/2014, Friday	5. Day of symposium, compilation of results and discussion of proceedings; Fare well dinner
09/27/2014, Saturday	Flight to Germany

**(2) Detailed time schedule of symposium**

**September 21, 2014 (Arrival day)**

Registration	Volunteers from China University of Geosciences (Beijing)
8:00-11:30	Registration
12:00-20:30	Registration

**September 22, 2014**

Opening	Chaired by Stefan Norra, Huaming Guo		
8:30-8:40	Welcoming speech by NSFC		
8:40-8:50	Welcoming speech by DFG		
8:50-9:00	Welcoming speech Prof. Yanxin Wang (President of China University of Geosciences, Wuhan)		
Session	Arsenic in the food chain (Chaired by Stefan Norra, Yongguan Zhu)		
9:00-9:25	Prof. Dr.	Zhu, Yong-guan	Arsenic in soil-plant systems
9:25-9:50	PD Dr.	Norra, Stefan	Arsenic in irrigated agricultural soils of Inner Mongolia, northern-Vietnam and West Bengal
9:50-10:15	Prof. Dr.	Ma, Lena Q	Arsenic speciation in edible plants and food products: environment and health implication
Coffee break (10:15-10:25)			
10:25-10:50	Dr.	Pleßow, Alexander	Atmospheric dusts and aerosols and soil contamination – apples and pears?
10:50-11:15	Prof. Dr.	Zheng, Baoshan	Arsenic in coal and its effect on human health
11:15-11:30	Prof. Dr.	Cen, Kuang	Research on the relationship between the content of toxic elements of the local soil and water and Carcinogenic.
11:30–12:00	Conclusive discussion		
Lunch			

Session	Fate of arsenic in the environment (Chaired by Hailiang Dong, Hauke Harms)		
14:00-14:25	NN		
14:25-14:50	Prof. Dr.	Dong, Hailiang	Abundance and diversity of arsenite-oxidizing bacteria in the hot springs of western China
15:00-15:25	Prof. Dr.	Lei, Mei	Field application of phytoremediation technique for arsenic contaminated land in China
Coffee break (15:25-15:35)			
Session	Fate of arsenic in the environment (Chaired by Yonghong Bi, Hauke Harms)		
15:35-16:00	Prof. Dr.	Harms, Hauke	Field application of a bioreporter-based test for arsenic in drinking water
16:00-16:25	Prof. Dr.	Yao, Jun	Compound specific isotope analysis of organophosphorus pesticides in groundwater
16:25-16:50	Prof. Dr.	Bi, Yonghong	Characteristics of arsenic contamination in the sediment cores from Three Gorges Reservoir, China.
16:50-17:15	NN		
17:15-17:45	Conclusive discussion		
Welcome dinner			

### September 23, 2014

September 26, 2017

Session	Geogenic distribution of groundwater arsenic in geological formations (Chaired by Dongguang Wen, Michael Berg)		
8:30-8:55	Prof. Dr.	Wen, Dongguang	Arsenic, fluoride and iodine in groundwater of China
8:55-9:20	Prof. Dr.	Berg, Michael	Subcontinental to regional prediction modeling of groundwater arsenic contamination in Southeast Asia and China
9:20-9:45	Prof. Dr.	Zhang, Fucun	Occurrence, distribution, and release mechanism of groundwater arsenic in Yinchuan Plain, China
Coffee break (9:45-9:55)			
9:55-10:20	Dr.	Banning, Andre	Arsenic in German sediment basins and its dynamics during the evolution of Central Europe
10:20-10:45	Dr.	Zhang, Yilong	The distribution of high arsenic groundwater in the Hetao Basin, Inner Mongolia
10:45-11:10	Prof. Dr.	Tang, Jie	Study on the relationship between water environment and arsenism in China.
11:10-11:40	Conclusive discussion		
Lunch			
Session	Health impacts of environment arsenic (Chaired by Hanns-Jürgen Kunert, Guifan Sun)		
14:00-14:25	Prof. Dr.	Kunert, Hanns-	Specific effects of arsenic exposure on

		Jürgen	neurocognitive functions: Neuropsychological results of the Vietnamese field study
14:25-14:50	Prof. Dr.	Sun, Guifan	Prediction of groundwater arsenic contamination through GIS model in China.
14:50-15:15	Prof. Dr.	Guo, Xiaojuan	Arsenic exposure and its adverse health effects in Inner Mongolia
15:15-15:40	Prof. Dr.	Norra, Christine	Mental health and neuropsychiatric deficits of chronic arsenic exposure in the Vietnamese field study
15:40-16:10	Conclusive discussion		
Coffee break (16:10-16:30)			
16:30-17:30	Discussion		
Dinner			

### September 24, 2014

Visiting water treatment plants for arsenic/fluoride removal in the Guanting Reservoir, which is the demonstration project of China-Germany collaboration.

8:30 –17:00	Water treatment plants for arsenic/F removal in the Guanting Reservoir
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### September 25, 2014

September 20, 2017

Session	Release mechanisms of arsenic to groundwater environment (Chaired by Yanxin Wang, NN)		
8:30-8:55	Prof. Dr.	Wang, Yanxin	Isotope geochemistry of high arsenic groundwater
8:55 – 9:20		NN	
9:20 – 9:45	Prof. Dr.	Sun, Jichao	Anthropogenic and natural sources of groundwater arsenic in the Pearl River delta
Coffee break (9:45-9:55)			
9:55–10:20	Dr.	Eiche, Elisabeth	Improved identification of Fe-minerals for As retardation in aquifer sediments – results from a case study in Van Phuc, Vietnam.
10:20-10:45	Prof. Dr.	Gao, Cunrong	Arsenic contamination of groundwater in the Hetao plain of Inner Mongolia, China
10:45-11:05	Prof. Dr.	Rüde, Thomas	Arsenic and uranium from common geological sources and causes of high spatial heterogeneity of their concentrations in groundwaters of south eastern Germany
11:05-11:35	Conclusive discussion		
Lunch			
Session	Release mechanisms of arsenic to groundwater environment (Chaired by Elisabeth Eiche, Qinghai Guo)		
14:00-14:25	Prof. Dr.	Ma, Teng	Geochemistry and hydrology of high arsenic groundwater in irrigated field at

			the Hetao Plain, North China
14:25-14:50	Prof. Dr.	Pichler, Thomas	Understanding anthropogenic induced release of geogenic As from limestone aquifers - a combined chemical, stable isotope, radiogenic isotope and modeling approach
14:50-15:15	Prof. Dr.	Guo, Huaming	Hydrogeologic and geochemical comparison of high arsenic groundwater in the Hetao, Yinchuan and Songnen basins
Coffee break (15:15-15:25)			
15:25-15:50	Prof. Dr.	Guo, Qinghai	Arsenic geochemistry of representative high-temperature geothermal systems in China
15:50-16:15	Dr.	Wang, Ya	Hydrogeochemical factors affecting arsenic distribution in a Quaternary coastal aquifer-aquitard system of the Pearl River Delta, China
16:15-16:40	Dr.	Cao, Wengeng	Control mechanism of the sedimentary structure on the distribution of high arsenic groundwater in the Hetao basin
16:40-17:30	Conclusive discussion		
Dinner			

#### September 26, 2014

September 26, 2017

Session	Mitigation processes to reduce the availability of arsenic to human beings (Chaired by Alexander van Geen, Yongfeng Jia)		
8:30-8:55	Prof. Dr.	van Geen, Alexander	A review of scientific and practical issues relevant to arsenic mitigation in South and Southeast Asia
8:55-9:20	Prof. Dr.	Jia, Yongfeng	Transformation and the fate of arsenic in sulfidic environment
9:20-9:45	Prof. Dr.	Kappler, Andreas	Arsenic removal from groundwater by household sand filters in Vietnam
Coffee break (9:45-9:55)			
9:55-10:20	Prof. Dr.	Feng, Chuanping	Remediation of arsenic-contaminated water and soils
10:20-10:45	Prof. Dr.	Kersten, Michael	Modeling the performance of akaganéite-based fixed-bed granular ferric hydroxide (GFH) adsorber for remediation of As-contaminated groundwater
10:45-11:05	Prof. Dr.	Zheng, Yan	Overcoming behavioral barriers in arsenic mitigation: Examples from Bangladesh, China and USA
11:05-11:35	Conclusive discussion		
Lunch			

Session	Mitigation processes to reduce the availability of arsenic to human beings (Chaired by Chuanyong Jing, Michael Kersten)		
<b>14:00-14:30</b>	Prof. Dr.	Neumann, Thomas	Fixation of arsenic in estuarine sediments

<b>14:30-15:00</b>	Prof. Dr.	Jing, Chuanyong	Arsenic exposure, removal, and health implication in typical areas in China
<b>15:00-15:30</b>	Dr.	Stauder, Stefan	Arsenic speciation and removal from groundwater: From research to practical application
Coffee break			
15:40-17:30	<b>Final Discussion</b>		
<b>Fare well dinner</b>			

**September 27, 2014 (Departure day)**