# International Workshop on Regional Ecology and its Environmental Effect

- Dust Sand Storm, its Impact and Mitigation Countermeasure -

# Agenda

(3-5 Dec. 2006, Beijing)

# Dec. 2,2006

14:00-20:00 Registration: (Hotel : Xin Da Du Hotel )

Dec. 3,2006

08:30 -10:30 Registration: (Hotel : Xin Da Du Hotel )

# **Opening Ceremony—Part I**

(钓鱼台大酒店二层多功能厅 2<sup>nd</sup> Multi-function Hall, Diaoyutai Hotel)

### Bus from Xin Da Du Hotel to Diaoyutai Hotel

(Participants accommodating in Xin Da Du Hotel--*Departure at 11:45, Arrive at 12:00*) (Other participants can go to Diaoyutai Hotel Directly but please make sure to arrive there before 12:00) Venue: *Diao Yu Tai Hotel* 

Chairman: Prof. Zhang Yutian (CRAES)

12:00-12:10	Workshop Registration
12:10-12:30	The three Environmental Ministers Arrive
12:30-12:40	Speech by Minister of SEPA, P.R. China
	Mr. Zhou Shengxian
12:40-12:50	Speech by Minister of MOE, Japan
	Mr. WAKABAYASHI Masatoshi
12:50-13:00	Speech by Minister of MOE, Korea
	Mr. LEE, Chi-Beom
13:00-13:10	Short Break

# **Opening Ceremony—Part II**

Chairman: Prof. Zhang Yutian (CRAES)

- **13:10-13:20** Speech by President, CRAES, China Prof. Meng Wei
- 13:20-13:30 Speech by President, NIES, Japan
- Prof. OHTSUKA, Ryutaro
- 13:30-13:40 Speech by President, NIER, Korea

Prof. Yoon, Seong-Kyu

## Plenary Session I

Chairman: Prof. Meng Wei, CRAES & Prof. OHTSUKA, Ryutaro, NIES

### Keynote Speech (25 minutes) with Q&A (5 minutes)

13:40-14:10	The Dust Storm and its Impact on Beijing's Air Quality
	Prof. Ren Zhenhai (Academician of Chinese Academy of Engineering, in CRAES)
14:10-14:40	Adaptation Strategies and Cause of Blown-sand Disaster in China
	Prof. Shi Peijun, Beijing Normal University

# **Plenary** Session II

Chairman: Prof. Yoon, Seong-Kyu & Prof. Shi Peijun, Beijing Normal University

### Invited Speech (20minutes) with Q&A (5 minutes)

14:40-15:05	Characterization of Northeast Asia Sand and Dust Storm (SDS) and Prediction
	Methods
	Prof. Quan Hao, Sino-Japan Friendship Center for Environmental Protection
15:05-15:30	Potential Capability of Adjoint Inverse Modeling of Dust Emission and Transport
	over East Asia for Real-Time Dust Forecasting
	Prof. UNO, Kyushu University, Japan
15:30-15:50	Coffee Break
15:50-16:15	The Evolution Mechanism of Dust Storm and Its Impact on the Atmospheric
	Chemistry over China
	Prof. Zhuang Guoshun (FuDan University & Beijing Normal University)
16:15-16:40	Synthetic Analyses of Asian Dust in 2006 over the Korean Peninsula
	Dr. Park, Il-Soo, NIER
16:40-17:05	Soil of Mongolia and Dust Storm
	Prof. D. Dorjgotov, Academician, MAS & NUM
17:05-17:30	Advances of Research on East Asia's Sand-dust Aerosols and the Effect on Beijing
	Prof. Chai Fahe, CRAES
17:30-17:50	Close Remark
18:00-19:30	Welcome Banquet
	会议中心二楼多功能厅 Multi-functional Hall, 2 <sup>nd</sup> Floor, Meeting Center

Dec. 4, 2006 (新大都饭店主楼二层华兴宫 Hua Xing Hall,2<sup>nd</sup> Floor, Main Building,Xin Da Du Hotel )

# Session I

Chairman: Prof. Chai Fahe (CRAES) & Dr. Shiro Hatakeyama (NIES) Speech (15minutes) with Q&A (5 minutes)

### There will be 20 minutes for a special speech from SEPA (To be confirmed)

08:30-08:50	Meteorological and Chemical Analysis of Two Dust Storm Events in March, 2002 in
	Beijing
	Prof. He Kebin, Tsing Hua University
08:50-09:10	Korea-China Co-research Project : A Study on Acute Effects of Fine Particles on
	Pulmonary Function
	Dr. Kim, Dae-Seon, NIER
09:10-09:30	Data Assimilation Experiments for Severe Dust Storm Forecasts Over China Using
	Ensemble Kalman Filter
	Prof. Wang Zifa, Atmospheric Physics Institute, Chinese Academy of Sciences

09:30-09:50	Changes of Chemical Composition of Aerosols Measured at Cape Hedo, Okinawa after Long-range Transport from the East Asia with Asian Dust
	Dr. Shiro Hatakeyama, NIES
09:50-10:10	Influence of Gaseous Oxalic Acid on the Deposition and Oxidization of Sulfur Dioxide onto Yellow Sand
10:10-10:30	Prof. Kazuhiko Sakamoto, Saitama University, Japan Coffee Break

### **Session II**

Chairman: Prof. Wang Wei (CRAES) & Dr. Park Il-Soo (NIER)

# Speech (15minutes) with Q&A (5 minutes)

10:30-10:50	Some Preliminary Results of Investigations of the Aerosol and Chemical
	Components of Gobi Mongolia
	Prof. Oyunchimeg D, Ministry of Nature and Environment,
	Gankhuyag E, Institute of Meteorology and Hydrology, Mongolia
10:50-11:10	Chemical Characteristics of Fine Particles during Spring Dust Storm Dominant
	Period in Two Chinese Cities, Baotou and Wuwei
	Prof. Hu Min, Beijing University
11:10-11:30	Two Results on Asian Dust at Coast Areas of China and Japan
	Prof. Zhang Daizhou, Prefectural University of Kumamoto
11:30-11:50	A Mechanism for the Increase of Pollution Elements in Dust Storms in Beijing
	Dr. Guo Jinhua, Beijing Normal University
11:50-12:00	Close Remark
12:00-13:30	Lunch
	主楼一层咖啡厅-餐券就餐 Coffee House, 1st Floor, Main Building, with Meal Ticket
13:00-14:00	Poster Section

# Session III

Chairman: Dr. SHIMIZU, Hideyuki (NIES) & Dr. Kim Dae-Seon (NIER)

# Speech (15minutes) with Q&A (5 minutes)

13:30-13:50	Numerical Simulation of Dust Storms in the Spring of 2001 over Northern China
	Prof. Zhang Yuanhang, Beijing University
13:50-14:10	Heterogeneous Uptake Sulfur-containing Compounds over Dust
	Prof. Chen Jianmin, Fudan University
14:10-14:30	Ground Observations of A Strong Dust Storm in Beijing in March 2002
	Prof. Zhang Renjian, Institute of Atmospheric Physics, Chinese Academy of Sciences
14:30-14:50	Light Elimination Character of Aerosol in Dust Storm Background Region
	Dr. Zhang Xiaoling, National Meteorological Center of CMA
14:50-15:10	Movement of Asian Dust Revealed by Network Observations Using Two-wavelength
	Polarization Lidars
	Dr. SUGIMOTO Nobuo, NIES
15:10-15:30	Coffee Break

### Session IV

Chairman: Prof. Gao Jixi (CRAES) & Dr. Hong, You-Deog (NIER) Speech (15minutes) with Q&A (5 minutes)

15:30-15:50	Road dust Loadings and its Source Characteristics in Beijing
	Dr. Jianhua Chen, CRAES
15:50-16:10	Germination Responses of Some Key Plant Species Grown at Horqin Sandy Land of
	China to the Simulated Desertificated Conditions
	Prof. Chen Lijun, Institute of Applied Ecology, Chinese Academy of Sciences,
	Shenyang
16:10-16:30	Recent Interannual Variation in Dust from Changes in Emission and Transport
	SUGATA Seiji, NIES
16:30-16:50	Simulation of Impacts of Heterogeneous Reactions on Nitrate Aerosol Concentration
	Distributions over East Asia
	Dr. Zhang Meigen, IAP, Chinese Academy of Sciences
16:50 - 17:10	Lidar Observations of Asian Dusts over Eastern China (31.90oN, 117.16oE)
	Dr. Jun Zhou, Anhui Institute of Optics and Fine Mechanics, Chinese
	Academy of Sciences
17:10 - 17:30	The Mineralogy and Sources of Dust Particles Collected from a Severe Asian Dust
	Storm Event in Beijing in Spring 2006
	Prof. Shao Longyi, China University of Mining and Technology
17:30 - 17:50	Hygroscopicity of Asian Dust Particles Mixed with Sulfate, Nitrate and Sea Salt
	Dr. Shi Zongbo, Prefectural University of Kumamoto, Japan
17:50-18:00	Close remark
18:00-19:30	Diner
	主楼三层潮都城 Chao Du Hall, 3 <sup>rd</sup> Floor, Main Building, with Meal Ticket

# Dec. 5, 2006

(新大都饭店主楼二层华兴宫 Hua Xing Hall,2<sup>nd</sup> Floor, Main Building,Xin Da Du Hotel)

# Session I

Chairman: Academician D. Dorjgotov (Mongolian Academy of Science) & Dr. Sugata Seiji (NIES)

# Speech (15minutes) with Q&A (5 minutes)

### There will be 20 minutes for a special speech from SEPA (TBC)

08:30-08:50	Study on the Situation of Land Desertification and Sand-dust storm Regionalization around Beijing Surrounding Area
08:50-09:10	Prof. Gao Jixi, CRAES Interactive Effects of Water Stress and High Temperature on Growth and
00.20-07.10	Photosynthesis of <i>Leymus chinensis</i> A Dominated Grass in a Semi-arid Steppe
	Ecosystem
	Prof. Xu Zhenzhu, Institute of Botany, the Chinese Academy of Sciences
09:10-09:30	Physical and Chemical Properties of Asian Dust Collected at Gosan Background
	Site, Korea
	Dr. Hong, Yoo-Deog, NIER
09:30-09:50	Dustfall Intensity, Characteristics and Provenance of the Settled Dust during an
	Unusual Dust Haze Event in Beijing
	Prof. Liu Lianyou, Beijing Normal University
09:50-10:10	Atmospheric Aerosol Chemistry: from Molecular Cluster to Particle
	Prof. Yang Xin, Fudan University
10:10-10:30	Coffee Break

# Session II

Chairman: Dr. Yu Yunjiang (CRAES) & Dr. UEHIRO, Takashi (NIES)

### Speech (15minutes) with Q&A (5 minutes)

10:30-10:50	Quantitative Analysis on Impacts of Vegetation for Controlling Wind Erosion in the Area of Sandy Desertification
	Prof. Ding Guodong, Beijing Forestry University
10:50-11:10	How to Accurately Understand the Problem of Wind Sand Storm and its
	Treatment?
	Prof. Jiang Gaomin, Institute of Botany, the Chinese Academy of Sciences
11:10-11:30	Demonstration of Eco-village model in the Grassland Region of Northern China
	Causes of Land Degradation and the Countermeasures
	Dr. Li Qingfeng, College of Ecology and Environmental Sciences, Inner Mongolia
	Agricultural University
11:30-11:50	Typical Appearance of DSS in Beijing Grasped by the Collaborative Monitoring
	Project with China, and Future Expectations of the New DSS Monitoring Network
	Based on the ADB/GEF Plan
	Masataka NISHIKAWA, NIES
11:50-12:00	Close Remark
12:00-13:30	Lunch
	主楼一层咖啡厅-餐券就餐 Coffee House, 1 <sup>st</sup> Floor, Main Building, with Meal Ticket
13:00-14:00	Poster Section

## **Panel Session A**

Chairman: Prof. Wang Wei (CRAES) & Dr. Masataka Nishikawa (NIES)

# The Physical-Chemical Characteristic and its Transformation of Dust Aerosol

The Evolvement, Transportation and Monitoring

### Speech (15minutes) with Q&A (5 minutes)

13:30 - 13:50	Characterization and Source Study of Asian Dust Episodes in Spring 2002 in
	Coastal China
	Prof. Liu Xiande, CRAES
13:50 - 14:10	Dust-sand Monitoring Network of China Meteorological Administration and its
	Preliminary Results
	Dr. Tang Jie, Chinese Academy of Meteorological Sciences
14:10 - 14:30	Individual Asian Dust Particles in the Southwestern Japan: Three Cases in 2005
	Dr. Hiroko Ogata, Prefectural University of Kumamoto, Japan
14:30 - 14:50	Elevation of Urban Ambient Air Particulate Matter Level Causing by Suburban
	Area Wind Soil Erosion
	Prof. Bai Zhipeng, Nan Kai University
14:50 - 15:10	Effect of Atmospheric Aerosols on the Photodecomposition of Nitrous Oxide
	Prof. Kong Lingdong, Department of Environmental Science & Engineering, Fudan
	University
15:10 - 15:30	Influence of Sand-dust Weather on Air Quality of Beijing and its Solving Methods
	Dr. Li Xue, Beijing Environmental Protection Bureau
15:30 - 15:50	Coffee Break

Chairman: Prof. Chai Fahe (CRAES) & Dr. Park Il-Soo (NIER)

Microphysical and Chemical Characteristics of Individual Mineral Particles in Fog
in Beijing
Dr. Li Weijun, China University of Mining and Technology in Beijing
Biological Effects of PM2.5 and PM10 Collected during the Dust Storm Period
Dr. Guo Xinbiao, Peking University School of Public Health
Validation of MODIS Aerosol Products by CSHNET over China
Prof. Wang Yuesi, Institute of Atmospheric Physics, Chinese Academy of Sciences
Isotopic Composition of Airborne Carbonate during Dust Storm and its Source
Significances
Prof. Cao Junji, State Key Laboratory of Loess and Quaternary Geology, Institute of
Earth Environment, Chinese Academy of Sciences

### **Panel Session B**

Chairman: Dr. Gao Qingxian (CRAES) & Dr. Kim Dae-Seon (NIER)

# The Simulation and Forewarning

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**Regional Ecological Change's Impact on Dust Storm** 

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# The Environmental Impact of Dust Events, its Prevention Planning and Technical Countermeasure

# Speech (15minutes) with Q&A (5 minutes)

13:30 - 13:50	The Influence of Dust-sand Storm to Air Quality of the Air pollution Prevention
	Pivot Cities from January to June of 2006
	Dr. Tong Yanchao, China National Environmental Monitoring Center
13:50 - 14:10	The Analysis on Ecological Environment and Regional Ecological Function of
	Xilinguole Steppe
	Prof. Li Zhenghai, College of Life Science, Dalian Nationalities University
14:10 - 14:30	Desertification Trend Discussion from 1981 to 2003 in China and Mongolia
	Dr. Zhang Shihuang, Institute of Geographic Sciences and Natural Resources
	Research, CAS
14:30 - 14:50	Effects of Climate Change on Rocky Desertification—A Case Study in Yongshun
	County, Hunan Province, China
	Dr. Xiong Yujiu, Beijing Normal University
14:50 - 15:10	Study on The Desert Bio-crust And Its Effection
	Prof. Yan Deren, Inner Mongolia Academy of Forestry
15:10 - 15:30	The Influence of Sand-dust Weather on Air Quality of Beijing in 2000~2005
	Dr. Qiu Qihong, Beijing Municipal Environmental Monitoring Center
15:30 - 15:50	Coffee Break

Chairman: Prof.. Gao Jixi (CRAES) & Dr. Sugimoto Nobuo (NIES).

15:50 - 16:10	Analysis on Transportation Paths and Source Locations of Sand-dusts Affecting
	Beijing
	Zhang Zhigang, National Meteorological Center of CMA
16:10 - 16:30	Dust Storm Sources and their Transport Throughout China
	Dr. Gao Qingxian, CRAES
16:30 - 16:50	Inner Mongolia Grassland Adds New Sand and Dust Source

	Dr. Zan Chenggong, Inner Mongolia Eco-environment Monitoring Station
16:50 - 17:10	Study on Dust from Urban Construction in Beijing
	Li Lingjun, Beijing Municipal Environmental Monitoring Center

## **Closing Ceremony**

Chairman: Prof. Zhang Yutian, CRAES

17:10 – 18:00Conclusion and Cooperative Suggestion19:00 - 20:30Dinner

## **POSTER SESSION**

Activities of "Green Earth Network", a Japanese Non-Profit Organization (NPO), in China Kunio TAKAMI<sup>1</sup>, Hideyuki SHIMIZU<sup>2</sup>, <u>Takashi UEHIRO</u><sup>2</sup>

<sup>1)</sup> Green Earth Network (GEN), 1-4-24-501 Ichioka, Minato, Osaka, Osaka, 305-8506, Japan

<sup>2)</sup> National Institute for Environmental Studies, 16-2 Onogawa, Tsukuba, Ibaraki, 305-8506, Japan

### **Application of Laser Lidar on Dust Events in Hohhot**

Xuhui Dong<sup>1</sup>, Hui Qi<sup>1</sup>, Shuli Zhao<sup>2</sup>, Tiesuo Li<sup>3</sup>, Xuechun Bai<sup>3</sup>, Yian Di<sup>1</sup>, Yan Chen<sup>1</sup>, Yanpeng Wang<sup>1</sup> Nobuo Sugimoto<sup>4</sup>, Masataka Nishikawa<sup>4</sup>, Kazuhiko Sakamoto<sup>5</sup>, Qingyue Wang<sup>5</sup>

- 1. Sino-Japan Friendship Center for Environmental Protection, Beijing, China.100029. (dxh9772@hotmail.com)
- 2. China National. Environmental Monitoring Centre, Beijing, China.100029
- 3. Inner Mongolia Environmental Monitoring Centre, Hohhot, China
- 4. National Institute for Environmental Studies, Japan.
- 5. Saitama University, Japan.

Atmospheric Deposition of <sup>137</sup>Cs Associated with the Asian Dust Event in March 2002. Hideshi FUJIWARA<sup>1</sup>, <u>Hideyuki SHIMIZU</u><sup>2</sup>, Yasuhito SHIRATO<sup>3</sup>, Toshiya OHKURO<sup>4</sup>.

- <sup>1)</sup> National Institute for Agro-Environmental Sciences, 3-1-3 Kannondai, Tsukuba, Ibaraki 305-8604, Japan
- <sup>2)</sup> National Institute for Environmental Studies, 16-2 Onogawa, Tsukuba, Ibaraki, 305-8506, Japan
- <sup>3)</sup> Ministry of Agriculture, Forestry, and Fisheries of Japan, 1-2-1 Kasumigaseki, Chiyoda, Tokyo 100-8950, Japan
- <sup>4)</sup> University of Tokyo, 1-1-1 Yayoi, Bunkyou, Tokyo 113-8657, Japan

### Bioreactivity of Particulate Matter in Beijing Air: Results from Plasmid DNA assay

Longyi SHAO<sup>1)</sup>, Zongbo SHI<sup>1</sup>, T. P. Jones<sup>2)</sup>, Jinjuan LI<sup>1)</sup>, A. G. Whittaker<sup>2)</sup>, K. A. BéruBé<sup>2)</sup>

1) Earth Sciences, China University of Mining and Technology, Beijing, 100083;

2) Cardiff University, CF10, 3YE, UK; E-mail: shaoL@cumtb.edu.cn

### Characterization of Plant Wax n-Alkanes in Aerosols in Beijing during Spring Dust Storm Period

Hong LI<sup>1\*</sup>, Longyi SHAO<sup>2</sup>, Zongbo SHI<sup>3</sup>, Taoe HE<sup>4</sup>

<sup>1</sup>Chinese Research Academy of Environmental Sciences, Beijing 100012, China

<sup>2</sup>Earth Sciences, China University of Mining & Technology, Beijing 100084, China <sup>3</sup>JSPS Fellow, Prefectural University of Kumamoto, Kumamoto 862-8502, Japan <sup>4</sup>Hunan University of Science and Technology, Xiangtan, 411201, China

### **Development of Lidars for Dust Monitoring Network**

Ichiro MATSUI<sup>1)</sup>, Nobuo SUGIMOTO<sup>1)</sup>, Atsushi SHIMIZU<sup>1)</sup> National Institute for Environmental Studies, 16-2 Onogawa, Tsukuba, Ibaraki, 305-8506, Japan

### Enhancement of Mite Allergen-Induced Eosinophil Infiltration in the Murine Airway and Local Cytokine/Chemokine Expression by Asian Sand Dust

Takamichi ICHINOSE<sup>1)</sup>, Kaori SADAKANE<sup>1)</sup>, Hirohisa TAKANO<sup>2)</sup>, Rie YANAGISAWA<sup>2)</sup>, Masataka NISHIKAWA<sup>2)</sup>, Ikuko MORI<sup>2)</sup>, Kyoko HIYOSHI<sup>3)</sup>, Hideyuki SHIMIZU<sup>2)</sup>

<sup>1)</sup> Oita University of Nursing and Health Sciences, Oita, Japan.

<sup>2)</sup> National Institute for Environmental Studies, Ibaraki, Japan.

<sup>3)</sup> Ishikawa Prefectural Nursing University, Ishikawa, Japan.

### Evaluation of the Technologies and Activities for Control Desertification in China

Guo Yu QIU<sup>1,2)</sup>, Hideyuki SHIMIZU<sup>2)</sup>, Jing YIN<sup>1)</sup>, Peijun SHI<sup>1)</sup>, Yong GAO<sup>3)</sup>

- <sup>1)</sup> College of Resources Science and Technology, Beijing Normal University, Beijing 100875, China
- <sup>2)</sup> National Institute for Environmental Studies, 16-2 Onogawa, Tsukuba, Ibaraki, 305-8506, Japan

<sup>3)</sup> Inner Mongolia Agricultural University, Hohhot 010019, China

### Influence of Salix psammophila Checkerboard on Wind-sand Flux and Soil Physical and **Chemical Properties.**

Yong GAO<sup>1)</sup>, Hideyuki SHIMIZU<sup>2)</sup>, Guo Yu QIU<sup>2), 3)</sup>, Ji WANG<sup>1)</sup>, Jian WANG<sup>1)</sup>

<sup>1)</sup> Inner Mongolia Agricultural University, Hohhot 010019, China <sup>2)</sup> National Institute for Environmental Studies, 16-2 Onogawa, Tsukuba, Ibaraki, 305-8506, Japan<sup>3)</sup> College of Resources Science and Technology, Beijing Normal University, Beijing 100875, China

**Lidar Observation and Characterization of a Heavy Dust Event in Beijing Area** Xuhui Dong<sup>1</sup>, Yanping Chen<sup>1</sup>, Shuli Zhao<sup>2</sup>, Hui Qi<sup>1</sup>, Lijun Ren<sup>1</sup>, Yanpeng Wang<sup>1</sup>,Nobuo Sugimoto<sup>3</sup>, Masataka Nishikawa<sup>3</sup>, Kazuhiko Sakamoto<sup>4</sup>, Qingyue Wang<sup>4</sup>

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2. China National Environmental Monitoring Centre. Beijing, China. 100029

- 3.National Institute for Environmental Studies, Japan.
- 4. Saitama University, Japan.

# Main Problem Faced and Relevant Countermeasure during the Environment Protection Work in Desertification Rural Areas in China

Han Yongwei, Gao Jixi, TuoXuesen

Institute of Ecology, Chinese Research Academy of Environmental Sciences, Beijing, 100012

### Studies on Development Trend of Grassland Desertification and Its Influencing Factors in

### Hulunbeir Steppe

LV Shi-Hai, GAO Ji-Xi (Ecological Environment Institute of Chinese Research Academy of Environmental Sciences, Beijing 100012, China)

### Study on Vertical Distribution Characteristics of Ultrafine Particles in Dust Storm Period over North China Coastal Areas by High Time-Space Resolution Aircraft Measurement in the Spring of 2006

Wei Wang<sup>1\*</sup>, Xiaoyu Liu<sup>1</sup>, Jianzhong Ma<sup>2</sup>, Yue Chen<sup>2</sup>, Dandan Xu<sup>1,3</sup>, Hongjie Liu<sup>1</sup>, Zongshuang Wang<sup>1</sup>, Hong Li<sup>1</sup>, Chunmei Geng<sup>1</sup>

<sup>1</sup>Chinese Research Academy of Environmental Sciences, Beijing 100012, China

<sup>2</sup>Chinese Academy of Meteorological Sciences, Beijing 100081, China,

<sup>3</sup>China University of Mining & Technology, Beijing 100084, China,

### Study on the Relation between Soil Nutrient and Physical Characteristics of the Different Communities in Reclaimed Land of Coal Mine

ZHANG Shu-li' Inner Mongolia Academy of Environmental Science, Hohhot 010010