



Hangkong University
(Shenyang Institute of Aeronautical Engineering)



沈阳航空工业学院

Clean Energy & Environmental Engineering Institute,
Waste Management Section (ICEEE)



In cooperation with

Shenyang City Construction Administration Bureau (SCCAB)
Shenyang Environmental Sanitation Engineering Design Institute
Green Liaoning of LN EPB



1st ICEEE International Conference

'Bioorganic Municipal Waste- and Landfill Management'

in line with the Chinese policies on 'Circular Economy' and 'Renewable Energy'

A 'Sino - German RRU-BMW Project Shenyang' activity

to suit the occasion of the UNEP World Environmental Day 2006: 'Compost and Biogas prevent Desertification'

INVITATION - AGENDA

China is in the meantime the world biggest waste producer.

The waste quantities in China will be tripled within the next 30 years.

The bioorganic content is twice compared to the waste in western countries.

New ways others than land filling must be gone.

Date/ Time: 24th - 25th June 2006, 08:00 – 18:30

Venue: Liaoning Friendship Hotel, Building No. 15, 2nd floor meeting room, No.1 Huanghe North Street, Huanggu District, (Beiling), Shenyang

Conference Objective: is to communicate, disseminate and discuss the results of RRU-BMW pilot project results on Biowaste source separation and utilisation in Shenyang under the background of the waste management situation in Europe and in China. The conference may verify the feasibility and the design criteria for an integrated biotechnological waste treatment system as the next logical step in developing the Waste Management system in Shenyang and in other cities in China. Shenyang is considering the construction of biotechnological treatment plants to avoid further MSW quantities going to the existing landfill sites till 2010. This planning meets the objectives of the national framework policy of 'Circular Economy', 'Renewable Energy', 'Pollution Prevention from waste', and the targets set in the 11th Five-Year Plan.

Conference Participants: Waste management experts and officials from administration, research, operation, design and policymaking, stakeholders of RRU-BMW project, Mass Media, civil servants and employees from solid waste service organisations from 7 cities of SY metropolis area (for this participants the conference will complete a 4 days training).



Registration: For registration please use the attached Registration Form or reply directly to >KW-lceee-news@163.com< or any of the below mentioned e-mail addresses. If we may support you in organising accommodation please tell us your arrival and departure dates and how many persons will stay in which kind of rooms. For any questions please contact our:

Liaison Persons: ICEEE: Mrs. Susan Cao, Tel/Fax: ++ 86 (24) 86 80 65 23, >KW-lceee-news@163.com< ICEEE, Prof. Dr. Li Rundong, Tel/Fax: ++ 86 (24) 86 14 1598, >rdlee@163.com< ICEEE, Prof. Dr. Bernhard Raninger, Tel/Fax: ++ 86 (24) 86 80 65 23, >raning@gmx.at<, raninger@126.com< Research Dep. of SY Construction Adm., Dir. Wan Baoliang, +86(24)23987023,>Wanbl2002@sino.com<

Handouts/Proceedings: RRU-BMW Final Report Phase II and Conference proceedings are planned to be published (papers in English and/or Chinese, with English title, and abstract) to be submitted not later than 10th of May 06), some specific papers will be published in 'The Chinese Journal of Process Engineering (CJPE)'.

Language: Lectures in English language will be translated into Chinese and vice versa

Cultural programmes/visits: On Saturday evening the event memorising the World Environmental day 2006 will contain local cultural performances given by Quan Yuan community and University NGOs.

On Sunday afternoon the following technical tours will be provided

- MSW collection, BM Pilot collection and land filling in Shenyang
- Visit of the Emperors Palace (Gu Gong), UNESCO World Heritage
- Visit of Horticulture World EXPO 2006 in Shenyang Qipan Shan

Costs: The participation of the conference is free of charge. The participants are kindly requested to purchase the meal tickets, the handouts and to register for the field visit.

Cooperation partners and Sponsors:

International:

- CIM Frankfurt (Dr. H. Fabian, Bernhard v. d. Haar)
- GTZ Beijing (Mrs. Wiebke Koenig, Ziegler, Gong-Jie.GTZ-China)
- INWENT Bonn (M. Funke-Bartz, Valeska Gruenhagen)
- ORBIT Ass. Weimar (Prof. Dr. W. Bidlingmaier, DI. E. Kraft)
- UNEP, Nairobi
- KONTEN WEIMAR Biotechnology Transfer Centre at Bauhaus Univ. Weimar (Mr. Schweizer)
- Bauhaus Universitaet Weimar BUW (Prof. Dr.habil. W. Bidlingmaier)
- Technical University Dresden, Institute for waste Management (IAA) (Prof. Dr. B. Bilitewski)
- University of Natural Resources and Applied Life Sciences Vienna (Prof. Dr. P. Lechner), Austria
- Fachhochschule Goettingen (Prof. Dr. M. Nelles), Lower Saxonia, Germany
- TU Braunschweig (Prof. Dr. K. Fricke)
- Nehlsen, AG, Bremen
- Federation of German Waste Management Industry, BDE (MD Dipl. Ing. P. Hoffmeier)
- Schaefer Ltd. Neunkirchen (MD H. Sahn)
- RAB Consultants GmbH. Salzburg (MD R. Neff, H. Huber)

China:

- Shenyang City Government
- Shenyang City Construction Administration Bureau (SCCAB)
- Shenyang Environmental Protection Bureau (SYEPB)
- Liaoning Provincial Department of Science and Technology
- Green Liaoning NGO
- ESETRC - MOC Beijing
- Tsinghua University Beijing
- Tongji University Shanghai
- Zhejiang University, Hangzhou
- Chongqing University
- China North-East University, Shenyang
- Hongkong University, Hongkong
- Brendebach Consultants Engineering, Representative Office Shenyang
- The Chinese Journal of Process Engineering (CJPE)
- Liaoning EUROPAER Food. Co., Ltd.

‘Bioorganic Municipal Waste- and Landfill Management’

in line with the Chinese policies on ‘Circular Economy’ and ‘Renewable Energy’

23^d of June: 19:00 Welcome Dinner for international and Chinese experts at EUROPAER Restaurant, San Hao Street

Conference 1st day, Saturday 24th June, 2006

08:00 Registration

08:30 Opening – Welcome

Chair: Vice Pres. Rui Xiaomiao (SYIAE)
Dr. Bernhard Raninger (CIM)

Mr. Xing Kai, Vice Mayor SY Government
Mr. Wang Wei, President Hangkong University
German Chamber of Commerce, Shanghai
GTZ Beijing
Mr. Prof. Dr.-Ing. Werner Bidlingmaier, BUW (D)
Mr. Peter Hoffmeyer, MD, BDE (D)
Mr. Mu Xiaosen, Dir, LN Department S & Tech.
Mr. Luo Guang Xiang, Vice. Dir. SCCAB
Mr. Xu Wenlong, Dir, Academy of Urban Constr.
Mr. Huang Yaohong, Dir. LN EPB, Green LN

Key note speeches on BMW-Management

Chair: Mr. Wang Hongtao (Tsinghua University) and Mr. B. Bilitewski (TU Dresden)

09:30	Waste Management Policy and Practise in China	Mr. Prof. Dr. Nie Yongfeng, Tsinghua University, Environmental Engineering Dep., Beijing (PRC)
	Bioorganic waste – a resource or fad ? (Ecological impact)	Mr. Prof. Dr.-Ing. Werner Bidlingmaier, Bauhaus Universität Weimar (D)
	EU drivers and policy issues on Bioorganic Waste Treatment	Mr. Enzo Favoino, Scuola Agraria del Parco di Monza, ISWA (I)
	Present and future situation of MSW treatment in China	Mr. Xu Wenlong, Dir. China Academy of Urban Construction, ESETRC MOC Beijing (PRC)

11:00 Break

Key note speeches on Landfill Management

Chair: Mr. Xu Wenlong and Mr. W. Bidlingmaier

11:30	How to convert a landfill policy into Recycling economy	Mr. Prof.-Ing. Bernd Bilitewski, Waste Management Dep., Dresden University (D)
	Management of aged landfills in China	Mr. Prof. Dr. Zhao Youcai, Key Laboratory Pollution Control, Tongji Univ., Shanghai (PRC)
	Bio treatment of MSW and its effect on avoiding Landfillspace	Mr. Prof. Wang Hongtao, Tsinghua University, Beijing (PRC)
	Economic Aspects of BMW Management in China	Mr. Prof. Qi Jianguo, China Academy of Social Sciences, Vice Chair of Circular Economy Commission, CASS, Beijing (PRC)
	Urban Mining in practice – Modular Sorting Plant Systems for predisposal Resource Utilisation	Mrs. Msc. Claudia Bunkenborg, Nehlsen AG, Bremen (D)

13:00 Discussion

13: 15 – 14:00 Lunch Break

Resources derived from Waste		
Chair: Mr. Zhao Youcai and Mr. E. Kraft		
14:00	Resource consumption & Waste management practice in Hongkong	Mr. Prof. Dr. Albert Koenig, Hongkong University, Hongkong (HK, PRC)
	Fluidised bed incineration of high calorific waste (RDF) in China	Mr. Prof. Dr. Yan Jianhua, Zhejiang University, Hangzhou (PRC)
	Pyrolysis of high calorific waste	Mr. Prof. Dr. Cai Jiuju, China North East University, Shenyang, Liaoning (PRC)
	MSWM as part of sustainable urban city management	Mr. Prof. Dipl.Ing. Josef Traenkler, ECO City Planning & Management Programme, GTZ Changzhou (D)

15:40 Break

Biotechnological Treatment of Waste		
Chair: Mr. Yan Jianhua and Mr. Albert Koenig		
16:10	MSW mechanical biological treatment in China	Mr. Xu Haiyun, ESETRC MOC, Beijing (PRC)
	BMW utilisation research	Mr. Prof. Dr. Peng Xuya, Chongqin University, Chongqin (PRC)
	Municipal Organic Waste AD Technology	Mr. Prof. Dr. Dong Renjie, China Agriculture University Beijing (PRC)
	Quality Compost as a Resource (requirements and application)	Mrs. Dr. Silvia Silvestri, Mr. Prof. G. Zorzi, Istituto Agrario di San Michele all Adige (I)
	The European Compost Network ECN & Compost Quality Assurance	Mr. Prof. Dr.-Ing. E. Kraft, Mr. Dipl. Ing Frank Schweizer, Biotechn. Exchange Centre Weimar Bauhaus Universität Weimar (D)
18:00 - 18:30 Discussion		

19:30 - 22:00 **Formal Banquet and World Environmental Day Event 2006**

- Local art performances (NGOs, Communities,)
- Awarding of best RRU-BWM pilot area families
- Certificates to Training Participants from 7 cities in Shenyang Metropolis area

Conference 2nd day, Sunday 25th June, 2006

RRU-BMW Shenyang Project - Results		
Chair: Mr. Xu Haiyun and Mr. Peter Lechner		
08:00	RRU-BMW Pilot Project Shenyang, Targets and Objectives	Mr. Prof. Dr. Li Rundong ICEEE, Shenyang (PRC)
	The RRU-BMW Communication Strategy	Mr. Dir. Huang Yaohong, Green LN (PRC), Mrs. Prof. Ma Guixin, SY Normal Univ. (PRC)
	Is source separation of BMW applicable for China?	Mr. Prof. Dr.-habil B. Raninger, CIM, Mining Univ. Leoben (A), ICEEE
	Biogas to replace fossil energy	Mr. Lect. Wang Lei, ICEEE Shenyang (PRC)
	Biodegradability of organic waste from SY BMW pilot areas	Mr. Ass. Feng Lei, ICEEE Shenyang (PRC) Mr. Luo, Mrs. Liu, ICEEE Shenyang (PRC)
	Pollutants in Shenyang BMW	Mr. Dr. Martin Gehring, CIM, ICEEE/SYIAE Shenyang (D)

	BMW treatment demonstration project Shenyang	Mr. Prof. Dr. Bernhard Raninger, ICEEE (A) Mr. Dipl. Ing (FH) H. Huber, RAB Salzburg (A)
	Feasibility of the BMW demonstration project Shenyang	Mr. Dir. Liu Tongwu, Shenyang Environmental Sanitation Engineering Design Institute (PRC)

10:00 Coffee Break

From Landfill to BMW Resources Management

Chair: Mr. Yu Shenguang and Mr. Bernhard Raninger

10:30	State of the art operation and long term maintenance of landfill sites	Mr. Prof. Dr. Peter Lechner, University for Resources and Vienna (A)
	CDM – MBT and microbiological methane oxidation filter on Landfills for methane reduction”	Mr. Dipl. Ing Tobias Bahr, Prof. Dr. Klaus Fricke, TU Braunschweig, (D)
	Landfill Gas Utilization and CDM Project Development	Mr. Msc. Florian Schmied, MD, MuP Environmental Consulting, Beijing (D)
	A sustainable organic waste management model for a rural township in China - Heng County	Mr. Prof. Jonathan Wong, Hong Kong Baptist University, Kowloon Tong, Hong Kong (HK, PRC)
	BMW Pilot Project in Hefei – in the view of Germany and China	Mr. Prof. Jin Jie, Hefei University, Anhui (PRC) Mr. Dipl. Kfm. Markus Knoepfle, CIM (D)

12:00 Lunch Break

Biogas as a Resource

Chair: Mr. Nie Yongfeng and Mr. Werner Bidlingmaier

13:00	Bioenergy potential of faeces and sewage sludge in China	Mr. Dipl. Ing H. P. Mang, Ms. Ina Jurga, CHN Academy of Agricultural Eng.,(CAAE) CIM (D)
	The Agriculture Waste Utilisation Project Liaoning	Dir. Mrs. Li Shen, LN Green Food Development Co. Ltd, Shenyang (PRC)
	Large-scale biogas plant for the treatment of distillery wastewater in Qingdao - a case study	Mrs. Msc. Tong Boitin, Asia-Pacific Biogas Research & Technology Center Chengdu (BRTC), CIM (PRC)
	Strength, Weakness, Opportunities and Threads for CDM trade with China - example Bioenergy	Mr. Dr. M. Schwegler, Centre for Environmentally Sound Technology Transfer (CESTT, ACCA21) Beijing, CIM (D)
14:30	Plenary Discussion Are alternatives to land filling feasible for Liaoning ? Chair: Mr. Dir. Mr. Xu Wenlong (PRC) Mr. Dr. Raninger, ICEEE, CIM (A)	Mr. Vice. Dir Wen Yi, Liaoning EPB (PRC) Mr. Prof. Dr.-Ing. Werner Bidlingmaier, BUW (D) Mr. Prof. Dr. P. Lechner, Univ. for Resources Vienna (A) Mr. Prof. Dr. Nie Yongfeng, Tsinghua University (PRC), Mr. Prof. Jonathan Wong, Hong Kong (HK, PRC) Mr. H. P. Mang, CAAE, CIM (D) Mr. Prof. Zhao Youcai, Tongji University (PRC) Mr. Prof. Dong Renjie, China Agricult. Univ. Beijing (PRC) Mr. Prof. Yan Jianhua, Zhejiang University, (PRC) Mr. Dir. Huang Yaohong, LN EPB, Green LN (PRC) Mrs. Prof. Ma Guixin, SY Normal University (PRC)
15:50	Summary and Conclusions	Mr. Dir. Mu Xiaosen, LN Dept. Sci.&Tech.(PRC) Mrs. Yang Zhuo, SY Government (PRC) Mr. Prof. Dr. Li Rundong, ICCCE (PRC)

16:30 - 19 :00 Site visits (please register)

International Training for Waste Management Experts

'From Landfill to Sustainable Solid Waste Management'

Date/ Time: 23rd – 25th June 2006, 08:00 – 18:00

Venue: Institute of Clean Energy and Environmental Engineering (ICEEE) of Shenyang Institute for Aeronautical Engineering (SYIAE), No.52 Huanghe North, Laboratory Building, 2nd floor

Training Objective: is to introduce advanced waste management in industrialised countries under special consideration of BMW–Management, biotechnological treatment, production of biogas as a renewable energy and clean compost and how to develop waste treatment from Land filling to an integrated sustainable approach.

Training Participants: for app. 30 waste management technical staff from 7 cities of the 'Shenyang economic area' (Anshan, Fushun, Benxi, Shenyang, Yingkou, Liaoyang, Tjeling), other cities, universities in China and from abroad.

Language: Lectures in English language will be translated into Chinese

Registration: For registration please use the attached Registration Form or reply directly to >KW-lceee-news@163.com< or any of the below mentioned e-mail addresses. If we may support you in organising accommodation please tell us your arrival and departure dates and how many persons will stay in which kind of rooms. For any questions please contact our:

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Costs: The training fee amounts to RMB 2000 (200 EUR) incl. accommodation, food, .
The training will continue for the next 2 days by joining the International Conference in the Friendship Hotel

08:15	Welcome Introduction of Participants Objectives of Training	SYIAE, Vice President ICEEE, Head of Department SCCAB, Vice Director Luo
08:30	MSW Management in China	Prof. Dr. Li Rundong, ICCCE (PRC)
09:30	Material Flow and Waste Management in Hangkong	Prof. Dr. Albert Koenig, Hongkong University, Hongkong (HK, PRC)
10:30	Break	
11:00	Bioorganic Waste Management, EU policy, global aspects, circular economy, .	Prof. Dr. Bernhard Raninger, CIM, ICEEE (A)
12:30	Lunch	
13:30	Sustainable MSW Management practise in Europe	Prof. Bidlingmaier, Mr.F.Schweizer, Bauhaus Universität Weimar (D)
15:30	Coffee Break	
16:00	Clean Compost – an element of circular economy in Europe	Mrs. Silvia Silvestri, Instituto Agrario di San Michele all Adige (I)
17:00	- 18:00 Discussion	

Hotel Information:

The participants are kindly asked to arrange their Hotel accommodation themselves. We have arranged with the following 2 Hotels at, respectively nearby the venue:

<p>Shenyang Hotel ***** No2. Taishan Road 110033 Shenyang Nearby Beiling East gate Tel. 086 – 24 – 8668 8688, 086 – 24 - 8668 8888 Mobile 13002447755 Price: RMB 688 (Discount 430) per night</p>	<p>沈阳宾馆***** 沈阳市皇姑区泰山路 2 号 (北陵公园东门附近) 电话 : 0086 – 24 – 8668 8688 , 0086 – 24 - 8668 8888 手机 : 13002447755 价格 : 430 元人民币/晚 (原价 688 元/晚)</p>
<p>VENUE: Liaoning Friendship Hotel (You Yi Binguan)**** No.1 Huanghe North Street, Huanggu District (Beiling Park) Tel.: 0086 – 24 – 86151122 Price: RMB 550 (Discount 380) per night</p>	<p>会议地点 : 辽宁友谊宾馆**** 沈阳市皇姑区黄河北大街 1 号 (北陵公园附近) 电话 : 0086 – 24 – 86151122 价格 : 380 元人民币/晚 (原价 550 元/晚)</p>
<p>Sunshine Hotel (Yang Guang Binguan)**** No. 56, Changjiang North Street, Huanggu District Tel.: 0086 – 24 – 86198000 Price: RMB 530 (Discount 220) per night</p>	<p>沈阳阳光宾馆**** 沈阳市皇姑区长江北街 56 号 电话 : 0086 – 24 – 86198000 价格 : 220 元人民币/晚 (原价 530 元/晚)</p>



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F a c e t s o f S h e n y a n g

The prehistoric relict as city symbol from the 7000 years old 'Xinle Site' at the Government Square [1], the UNESCO cultural Heritages from the Qing Dynasty 'Beiling' [2] and the 'Emperors Palace Gu Gong' [3], the old heavy industry centre of China in 'Tiexi' [4], the modern CBD of Donbei [5], the ecological HORTICULTURE EXPO 2006 city [6], a place of traditional [7] and modern culture [8].