

International Conference ORBIT 2009 China "Biomass and Organic Waste as Sustainable Resources

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Day 1 19 th of November 2009				
Room 1	Auditorium	Room 2	Room 3	Room 4
Download all presentations of Room 1	Download all presentations of Auditorium and opening session	Download all presentations of Room 2	Download all presentations of Room 3	Download all presentations of Room 4
Composting process Chair: Prof.F. Schuchardt	Anaerobic digestion - biogas Chair: Prof. Joan Mata-Alvarez	Green house gas emission Chair: Carsten Cuhls	Biomass use for energy and fuels Chair: Prof. Marco de Bertoldi	Compost application Chair: Josef Barth
Composting process Chair: Prof. LI Ji	Anaerobic digestion - biogas Chair: Prof. CAO Man	Climate change/LCA Chair: Prof. Klaus Fricke	Biomass assessment Chair: Prof. WANG Hongtao	Composting technology Chair: WU Desheng
Day 2 - 20 th of November 2009				
Composting technology Chair: Prof. Jonathan Wong	Anaerobic digestion - process Chair: Prof. Bernhard Raninger	Composting specific waste streams Chair: Prof. Werner Bidlingmaier	Biomass use for energy and fuels Chair: Prof. ZHANG Peng	Municipal waste management Chair: Prof. LI Rundong
Compost quality Chair: Prof. CHANG Zhizhou	Anaerobic digestion co-digestion Chair: Prof. DONG Renjie	Wastewater treatment Chair: Prof. ZHOU Qixing	Bioorganic waste management Chair: Luis Diaz	Municipal waste management Chair: Dir. XU Haiyun
Compost quality Chair: Prof. LI Guoxue	Anaerobic digestion - process Chair: Prof. WANG Kaijun	Treatment specific waste streams Chair: Frank Schweizer	No presentations	Anaerobic Digestion Special issues Chair: Dunja Hoffmann

Day 1 - Morning 19 th of November 2009	
10:30 – 12:05	Opening session – Keynote Speeches
10:30	"Biomass energy development strategy of China" Prof. SHI Yuanchun, China Agricultural University, China
10:55	"Bioresources Management - Past, Present and Future"- Prof. Dr. Werner Bidlingmaier, ORBIT Association, Germany
11:20	"Win-win strategy of biology and environment protection : anaerobic digestion of high strength organic waste water" - Prof. CHENG Xu, China Agricultural University
11:45	"Climate change - does the soil matter?" Mr. Luca Montaranella, Joint Research Centre JRC, European Commission, Italy
12:15	Introduction to the upcoming events Prof. Dr. LI Ji (CAU), Prof. Dr. Bernhard Raninger (CIM/GTZ)

Day 1 - Afternoon - 19th of November 2009

	Room 1	Auditorium	Room 2	Room 3	Room 4
	Composting process Chair: Prof.F. Schuchardt	Anaerobic digestion - biogas Chair: Prof. Joan Mata-Alvarez	Green house gas emission Chair: Carsten Cuhls	Biomass use for energy and fuels Chair: Prof. Marco de Bertoldi	Compost application Chair: Josef Barth
13:40	Compost use and rapid composting in China (101) LI Ji, College of Resources and Environmental Sciences, China Agricultural University, China	Research on organic waste recycling industry (100) CAO Man, Qingdao Tianren Environmental Engineering Co.,Ltd.,China, Shandong University, Jinan, China	Monitoring and reduction of methane emissions from biogas plants (511) <u>XU Pan</u> ¹ , J. Clemens ² , DONG Renjie ¹ , C. Cuhls ² , GUO Jianbin ¹ 1 China Agricultural University , Beijing, China 2 Gewitra Ingenieurgesellschaft für Wissenstransfer mbH, Bonn und Hannover, Germany	Creating regional added value by comparing and utilizing different bio energy options from regional bioenergy resources (87) D. Hoffmann, German agency for technical cooperation (gtz), Eschborn, Germany	Fertilizer value of recovered nutrients and organic matter from organic waste (506) <u>J. Clemens</u> ¹ , S. Siebert ² 1 gewitra GmbH, Bonn Germany 2 German Compost Quality Assurance Organisation BGK, Cologne Germany
14:00	Modelling of organic matter dynamics during composting process (468) Y. Zhang ^{1,2} , G. Lashermes ¹ , J. Doublet ² , C. Francou ² , S.Houot ¹ , Enrique Barriuso ¹ , Y.G. Zhu ³ and P. Garnier ¹ 1 INRA-AgroParisTech, Environment and Arable Crops Research Unit, Thiverval-Grignon, France 2 VEOLIA Environnement, Recherche et Développement, Limay, France 3 RCEES Research Center for Eco-Environment of Sciences, CAS, 100085, Beijing, China	Biogas standardization construction and development in China (02) LIU Geng, China Biogas Society, Beijing, China	Monitoring gas emissions from home composting units (435) <u>J.K. Andersen</u> , A. Boldrin, T.H. Christensen, and C. Scheutz, Department of Environmental Engineering, Technical University of Denmark, Copenhagen, Denmark	Enhancing the energy efficiency of utilizing biogenous residues – a multi-criteria approach (439) <u>T. Bahr</u> , W. Jacobs, T. Thiel, K. Fricke, Technical University Braunschweig, Germany	Effects of compost on cucumber seedling growing in medium (53) WANG Jiachen, Beijing Academy of Agriculture and Forestry Sciences, China
14:20	Prognosis tool for odour emission from composting plants (426) K. Harba, <u>W. Bidlingmaier</u> , Bauhaus-University Weimar, Department of Waste Management, Weimar, Germany	Anaerobic digestion as a source of bioenergy and other bioproducts (104) Jason Shih, Professor Emeritus, Poultry Science, NCSU, China	Low gas emission of mechanically and biologically treated waste reduced by microbial methane oxidation in landfill top covers (493) <u>S. Bohn</u> J. Jager Institute WAR, Dept. Waste Technology, Darmstadt University of Technology, Darmstadt, Germany	Sustainable utilization of biomass resources for power and biofuels in Thailand (421) <u>W. Siemers</u> , Joint Graduate School of Energy and Environment, Thailand	The impact of composts in energy willow plantation (463) Csaba Gyuricza ¹ , György Füleky ¹ , <u>László Alexa</u> ² 1 Szent István University, Hungary 2 Hungarian Compost Association, Hungary
14:40	Use of a cyanide contaminated wastewater as moisturizing element during the composting of a sewage sludge: first pilot scale trials (462) D. Perez, <u>R. Rodríguez</u> , & S. Mato, University of Vigo, Spain	Fostering good biogas practice by the public administration in Styria (Austria) (456) <u>L. Winter</u> , W. Himmel, Styrian Provincial Government, Specialized Division 19D, Waste and Material Flow Management, Graz, Austria	Energy use and greenhouse gas emissions from animal manure in organic farming: case study in China (90) LIU Yuxian, University of Copenhagen, Denmark	An assessment of the availability of household biogas resources in rural China (43) CHEN Yu, College of Forestry, Northwest A&F University, China	Impacts of sewage sludge agronomical use in sugarcane and environmental (515) <u>F.C. da Silva</u> , EMBRAPA Informática Agropecuária/ CNPTIA – FATEC Piracicaba; A.E. Boaretto, CENA/ USP, C.H. Abreu Jr. & C.F. Wendel, Centro de Energia Nuclear na Agricultura/ São Paulo University - CENA/USP, Brasil

Day 1 - Afternoon - 19th of November 2009

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	Composting process Chair: Prof.F. Schuchardt	Anaerobic digestion - biogas Chair: Prof. Joan Mata-Alvarez	Green house gas emission Chair: Carsten Cuhls	Biomass use for energy and fuels Chair: Prof. Marco de Bertoldi	Compost application Chair: Josef Barth
15:00	Pre-treatment of residual MSW using a rotary drum reactor: impact of retention time (455) <u>Y. Crepel</u> , B. Morvan, J.-P. Balnquart, A. Covez, M. Poitrenaud, J. Cacho, Veolia Environnement Research and Development, France	Silages as feedstock for biogas: Novel perspectives for silage additives (494) <u>D. Banemann</u> ¹ , H. Lindorfer ² , T. Fritz ³ , M. Nelles ¹ 1 University of Rostock, Faculty of Agricultural and Environmental Sciences, Rostock, Germany 2 Schaumann Bioenergy, Germany 3 IS-Forschungsgesellschaft, Germany	Gliding arc assisted reforming of methane into hydrogen (497) L.Zhong, J.H.Yan, X.D.Li, S.Y.Lu, Y.Chi, K.F.Ce, Zhejiang University, Laboratory of Clean Energy Utilization, China	Biofuels in Germany – Technical and Economical Status Quo (527) Peter Schrum, German Bio and Renewable Fuel Association, Germany	Characteristics of different composted substrates to be used as medium for the cultivation of the Pleurotus sajor-caju mushroom: A preliminary study. (495) <u>R. Mohee</u> , Y. Mihilall Faculty of Engineering, Department of Chemical and Environmental Engineering, University of Mauritius, Mauritius
	Room 1 Composting process Chair: Prof. LI Ji	Auditorium Anaerobic digestion - biogas Chair: Prof. CAO Man	Room 2 Climate change/LCA Chair: Prof. Klaus Fricke	Room 3 Biomass assessment Chair: Prof. WANG Hongtao	Room 4 Composting technology Chair: WU Desheng
16:00	Effect of carbon to nitrogen ratio on the composting of vineyard pruning residues (39) WANG Yinquan, Gansu College of Traditional Chinese Medicine, China	Biogas development in China: policy, achievements, challenges & opportunities (102) DONG Renjie, Energy Engineering and Low Carbon Technology Lab, China Agricultural University, China	New CDM tools for waste management projects (474) K. Fricke, <u>E. Kölsch</u> , Technical University Braunschweig, Germany	Bioenergy concepts in the rural area – decentralized energy supply as a chance for the regional added value (473) <u>A. Schüch</u> , A. Nassour, M. Nelles, University of Rostock, Germany	Research progress on sludge composting (04) PAN Hongyan, College of Resource and Environment, Shanxi University of Science & Technology, China
16:20	Degradation kinetic of removing tetracycline antibiotics in swine manure composting (57) WEI Yuansong, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences, China	Effect of compost pre-treatment on biogas production from rice straw (72) CHANG Zhizhou, Institute of Agricultural Resources and Environment, Jiangsu Academy of Agricultural Sciences, China	Legal basis of CDM based Certified Emission Reductions (CERs) trade (526) C. Werner, SKW Schwarz, Rechtsanwälte, München, Germany	Opportunities, costs and benefits of biomass and organic waste as sustainable resources (408) <u>A. Braekevelt</u> , Public waste agency of Flanders (OVAM)/ Flemish compost organisation (VLACO), Mechelen, Belgium	The development of key technology of sludge composting and research of trend for product safety (05) SU Jing, Department of Aquatic Environment System Engineering, Chinese Research Academy of Env. Science, China
16:40	Wetting agent effects on physical properties of spent mushroom compost and rooting of impatiens hawkeri (24) LUAN Yaning, College of Water and Soil Conservation, Beijing Forestry Univ. China	Biogas potential of sewage screenings using mesophilic anaerobic digestion (427) L. Stella Cadavid Rodriguez, Universidad Nacional de Colombia, and University of Leeds, United Kingdom	German GHG mitigation lighthouse project MBT Gaobeidian (417) F. Kölsch, Technical University Braunschweig, Germany	Energy and environmental Evaluation on efficient utilization of agricultural wastes (47) MENG Fanqiao, China Agriculture University, China	The application of fluorescence spectroscopy for the evaluation of the compost maturity (79) HE Xiaosong, Chinese Research Academy of Environmental Science, China

Day 1 - Afternoon - 19th of November 2009

	Room 1	Auditorium	Room 2	Room 3	Room 4
	Composting process Chair: Prof.F. Schuchardt	Anaerobic digestion - biogas Chair: Prof. Joan Mata-Alvarez	Green house gas emission Chair: Carsten Cuhls	Biomass use for energy and fuels Chair: Prof. Marco de Bertoldi	Compost application Chair: Josef Barth
17:00	Understanding microbial dynamics of composting systems. Specific respiratory activity as a driving force of bacterial diversity of composting systems and its implications (419) J. Adams, ETCIC, University of Hull, UK	Slow-release inhibition of biomethane - the anaerobic digestion process of municipal solid waste (09) ZHAO Tiantao, Tongji University, China	Life cycle assessment of MSW treatment in Beijing (31) JI Danfeng, Beijing University of Chemical Technology, China	Technology innovation research on straw biomass gasification industry (77) X.M. Wei, Beijing Lianhe Chuangye Construction Engineering Co., Ltd., China	Low cost extraction of pigments from mulberry fruit: the process affects anthocyanin yield and quality (52) LIU Peng, College of Engineering, China Agricultural University, China
17:20	Temperature dynamics and distribution in sewage sludge composting process with a bioreactor (75) ZHANG Jun, Institute of Geographic Sciences and Natural Resources Research, Academy of Sciences, China	Comparison of biogas technologies between China and Germany (107) Tong Boitin, Tianren Ltd., BEB BioEnergy Berlin GmbH, Germany	Why Chinese MSW Landfills do not generate the expected amount of Certified Emission Reduction (476) CHEN Xiaoyan, B. Raninger, Shenyang Institute of Aeronautical Engineering (Hangkong University), China	Development of optimization model and case study for biomass energy system in Japan (85) GAO Weijun, The University of Kitakyushu, Japan	
17:40	Bacterial diversity of microbial community with capability of degrading lignocellulose (91) WANG Weidong, Heilongjiang August First Land Reclamation University, China		Anaerobic fermentation of synthesis gas for organic acid and alcohol production (17) XU Huijuan, Key Laboratory of Renewable Energy and Gas Hydrate, Guangzhou Institute of Energy Conversion, Chinese Academy of Sciences, Guangzhou, China	The nutrient management research of organic vegetables grown in Beijing (22) SUN Qiping, Institute of Plant Nutrition and Resources, Beijing Academy of Agriculture and Forestry Sciences, China	

Day 2 – Morning 20th of November

	Room 1	Auditorium	Room 2	Room 3	Room 4
	Composting technology Chair: Prof. Jonathan Wong	Anaerobic digestion - process Chair: Prof. Bernhard Raninger	Composting specific waste streams Chair: Prof. Werner Bidlingmaier	Biomass use for energy and fuels Chair: Prof. ZHANG Peng	Municipal waste management Chair: Prof. LI Rundong
08:40	Optimizing the rotting process in composting plants by an innovative and marketable control system (422) S. Keller, W. Bidlingmaier, Bauhaus-University Weimar, Waste Management, Weimar, Germany	Study on key technical data of food waste anaerobic digestion (81) YUAN Qiaoxia, College of Engineering and Technology, Huazhong Agricultural University, China	Composting sewage sludge proceeding from poultry slaughterhouse (444) E. Rodríguez, D. Perez, J. Eiroa, J. Domínguez, S. y Mato, University of Vigo, Spain	Genetic engineering of cassava and sweet potato for industrial applications (61) ZHANG Peng, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences, China	Options for the management of organic residues in China (531). Luis Diaz, Calrecovery, CA, USA

Day 1 - Afternoon - 19th of November 2009

	Room 1	Auditorium	Room 2	Room 3	Room 4
	Composting process	Anaerobic digestion - biogas	Green house gas emission	Biomass use for energy and fuels	Compost application
	Chair: Prof.F. Schuchardt	Chair: Prof. Joan Mata-Alvarez	Chair: Carsten Cuhls	Chair: Prof. Marco de Bertoldi	Chair: Josef Barth
09:00	<p>Effects of bacterial inoculation and higher aeration on odour emission during food waste composting (501)</p> <p><u>J. Wong</u>, Hong Kong Baptist University, Hongkong, China</p>	<p>Trace element deficiencies and inhibition effects in anaerobic digestion of solid wastes (438)</p> <p>H. Lindorfer², <u>D. Banemann</u>¹, T. Fritz³, M. Nelles¹</p> <p>1 University of Rostock, Faculty of Agricultural and Environmental Sciences, Germany 2 Schaumann Bioenergy GmbH, Germany 3 IS-Forschungsgesellschaft, Germany</p>	<p>Pig manure systems in Germany and China and the impact on nutrient flow and composting of the solids (432)</p> <p><u>F. Schuchardt</u>¹, L. Ren, T. Jiang, Y.Q. Zhao, R. Guo, G. Li</p> <p>1 Federal Research Institute for Rural Areas, Forestry and Fisheries, Institute of Agricultural Technology and Biosystems Engineering, Germany</p> <p>All other authors: Chinese Agricultural University, Department of Environment Science and Engineering, China</p>	<p>Integrated microbial system for the production of Bio ethanol methane compost and algal biomass from organic residues (411)</p> <p>M. de Bertoldi, Department of Industrial Microbiology, University of Udine, Italy</p>	<p>The study of oriented gasification of biomass and RMW in a fluidized bed (59)</p> <p>LI Rundong, Institute of Clean Energy and Engineering and Liaoning Key Laboratory of Clean Energy, China</p>
09:20	<p>Household organic waste composting using bin with different type of passive aeration (483)</p> <p><u>S. Karnchanawong</u>, N. Suriyanonand</p> <p>Department of Environmental Engineering, Faculty of Engineering, Chiang Mai University, Thailand</p>	<p>Aerobic treatment of fermentation residuals of municipal waste in the liquid phase – optimization potentials, practical experiences and results (450)</p> <p><u>O. Kugelstadt</u>, K. Fricke, Technical University of Braunschweig, Germany</p>	<p>Transformation of nitrogen during pig manure compost at low temperature (19)</p> <p>XU Jinggang, College of Resources and Environmental Sciences, Northeast Agricultural University, China</p>	<p>Relative characteristics on ethanol production of sweet potato (29)</p> <p>ZHAO Hai, Chengdu Institute of Biology, Chinese Academy of Science, China</p>	<p>Biodrying: an energy utilization approach of dewatered sewage sludge as a biomass resource (41)</p> <p>HE Pinjing, Tongji University, China</p>
09:40	<p>Study and monitoring of the waste water treatment plant sludge composting on an industrial scale covered pile (442)</p> <p><u>R. Rodriguez</u>, D. Pérez, M. Mompeó, I. Maseda, & S. Mato,</p> <p>University of Vigo, Spain</p>	<p>Dutch approach: Energy recovery from sewage sludge (505)</p> <p>H. Guo¹, E. Koornneef¹, <u>B. Lue</u>²,</p> <p>1 DHV B.V. Amersfoort, Netherlands 2 DHV (Beijing) Environmental Engineering Co. Ltd, Beijing, China</p>	<p>Decomposition of rubber factory waste for composting (429)</p> <p>T. Kaosol, S. Wandee, Prince of Songkla University, Thailand</p>	<p>Towards lignocelluloses-to-H₂ bioconversion: bacterial resources and application potential (62)</p> <p>WANG Aijie, State Key Laboratory of Urban Water Resource and Environment, China</p>	<p>Current problems and methods of resolutions on collection and utilization of landfill gas in Germany (441)</p> <p><u>S. Licht</u>, M. Nelles, University of Rostock, Germany</p>
10:00	<p>Promotion of surfactants APG additions during agricultural wastes aerobic composting (56)</p> <p>ZHANG Fabao, GAAS / Guangdong Key Laboratory of Nutrient Cycling and Farmland Conservation, China</p>	<p>Effect of hydraulic retention time (HRT) on thermophilic dry anaerobic digestion of residual MSW at semi-industrial scale (453)</p> <p><u>M. Carrere</u>, H. Olczyk, F. Lebrisse, O. Lemaire, J.A. Cacho Rivero</p> <p>Centre de Recherche sur la Propreté et l'Energie, Veolia Environnement R&D, France</p>	<p>Reduction of resistance to macrolide-lincosamide-streptogramin B and tetracycline during thermophilic composting of swine manures (436)</p> <p>Z. Yu, The Ohio State University, United States</p>	<p>Bioethanol producing from sweet potato as raw material (46)</p> <p>GUO Xiaoding, Institute of Food Crop, Jiangsu Academy of Agricultural Science, China</p>	<p>Biological oxidation of methane using aged refuse as biocover in refuse landfill (40)</p> <p>HAN Dan, Tongji University, China</p>

10:20	Performance of a pilot scale biotrickling filter for ammonia removal from composting using different aeration modes (88) WU Chuanfu, University of Science and Technology Beijing, China	Effect of sodium carbonate amendment on the performance of anaerobic digestion of food waste (502) J. Wong, Hong Kong Baptist University, Hongkong, China	Cattle mortality disposal via composting in a cold climate: Feasibility, greenhouse gas emissions and land application of the end product (507) X. Hao, Agriculture and Agri-Food Canada, Lethbridge Research Centre, Canada	Combined supercritical/subcritical pre-treatment and hydrolysis of stalks for ethanol production (70) ZHAO Yan, Tsinghua University, China	A comparison of biogases generation and stabilization process in the landfills of refuse and modified sewage sludge (44) ZHEN Guangyin, Tongji University, China
	Room 1	Auditorium	Room 2	Room 3	Room 4
	Compost quality Chair: Prof. CHANG Zhizhou	Anaerobic digestion co-digestion Chair: Prof. DONG Renjie	Wastewater treatment Chair: Prof. ZHOU Qixing	Bioorganic waste management Chair: Luis Diaz	Municipal waste management Chair: Dir. Xu Haiyun
11:10	Quality and quality assurance and its key role for sustainable organic waste recycling (407) J. Barth, European Compost Network ECN/ORBIT e.V., Weimar, Germany	Experimental and modelling co-digestion of pig manure and glycerine to improve biogas production (518) J. Mata-Alvarez, University of Barcelona, Spain	The effect comparisons of wastewater treatment using MFCs and BCO processes (42) ZHOU Qixing, College of civil and Environmental Science and Engineering, Nankai University, China	The RRU-BMW project - four years pilot tests on bioorganic municipal waste source separation in Shenyang, China (475) B. Raninger, Shenyang Institute of Aeronautical Engineering (Hangkong University), China	Energy Exploitation from Biomass with the E-M-D-system (469) Y. Liu, W. Bidlingmaier, Bauhaus-University Weimar, Waste Management, Weimar, Germany
11:30	Changes in content of Zn, Cu, Ni and Pb in different granulometric fraction during composting of municipal solid waste (445) I. Villar, E. Rodriguez, D. Perez, D. Cereijo, S. Mato, M. Dominguez, & J. Patiño, University of Vigo (Ecology and Animal Biology Department), Spain	Co-digestion of animal manure and source separated bioorganic municipal waste from Shenyang, China (479) LEI Feng, B. Raninger, Shenyang Institute of Aeronautical Engineering (Hangkong University), China	Integrated household constructed wetland for rural domestic wastewater treatment in rural areas (45) WU Shubiao, College of Water Conservancy and Civil Engineering, China Agriculture University, China	Efficiency increase with a new separation technology prior biological / thermal waste treatment (409) G. Rettenberger, Ingenieurgruppe RUK, Trier, Germany	Estimation of nitrogen flow in Beijing, China (68) Mami Irie, Tokyo University of Agriculture, Sakuragaoka, Setagaya, Tokyo, Japan
11:50	Heavy metals in waste composts of São Paulo State, Brazil (512) C.F. Wendel, University of São Paulo (Center of Nuclear Energy in Agriculture - CENA/ USP), F.C. da Silva, Embrapa Informática Agropecuária/ Cnpia - Fatec Piracicaba, C.P. Cabral, CENA/ USP, C.H. Abreu Jr., CENA/ USP, Brazil	The study on detection and function of the biogas slurry component (86) HOU Baochao, College of Engineering, China Agricultural University, China	Adsorption of phosphorus from aqueous solution onto dewatered alum sludge (84) HU Jing, College of Water Conservancy and Civil Engineering, China Agriculture University, China	Role of compostable plastics in source separation of organic waste (525) M. Caggiano, C. Garaffa Novamont Spa, Novara, Italy	Is Public Private Partnership -PPP- a panacea to solve waste management problems? (465) F. Schweizer, Consultant, Stuttgart, Germany
12:10	Assessing the relationships between EC, carbon mineralization and phytotoxicity for chlorinated herbicides during composting (414) R. Mohee, V. Jumnoodo Department of Chemical and Environmental Engineering, Faculty of Engineering, University of Mauritius, Mauritius	Anaerobic co-digestion of pig slurry with fruit waste - on site operation with a mobile pilot plant (520) L. Ferreira, Instituto Superior de Agronomia, University of Lisbon, Portugal	China's National Standards about the disposal of sewage sludge from municipal waste water treatment plants (73) ZHENG Guodi, Center for Environmental Remediation, Institute of Geographic Sciences and Natural Resources Research, China	Separate collection in highrise buildings (467) F. Bickel, Fichtner GmbH & Co KG, Stuttgart, Germany	Impact of aerobic pretreatment on the biogas generation of bioorganic municipal waste (BMW) from China (480) B. Raninger, Shenyang Institute of Aeronautical Engineering (Hangkong University), China

Day 2 –Afternoon 20th of November

	Room 1	Auditorium	Room 2	Room 3	Room 4
	Compost quality Chair: Prof. LI Guoxue	Anaerobic digestion - process Chair: Prof. WANG Kaijun	Treatment specific waste streams Chair: Frank Schweizer	No presentations	Anaerobic Digestion Special issues Chair: Dunja Hoffmann
13:40	Co-composting of agricultural residues and food wastes (105) LI Guoxue, College of Resources and Environmental Sciences, China Agricultural University, China	Process monitoring based performance optimisation of biogas plants in Germany (529) F. Scholwin, German Biomass Research Centre Leipzig, Germany	Effects of indigenous and exogenous microbial inocula on dynamic changes of enzyme activities during composting in a bioreactor (66) XU Zhi, College of Resources and Environmental Science, Yunnan Agricultural University, China		Utilization of fruit waste as co-substrate for pig manure anaerobic co-digestion – The COD:N:P balance (521) L.M. Ferreira, E. A. Duarte, D.Figueiredo
14:00	VFA as potential risk of compost plant toxicity (486) M. Himanen, K. Hänninen, Department of Biological and Environmental Sciences, Jyväskylä University, Finland	Effect of water flushing on the acidification process in anaerobic digestion of swine manure (36) GUO Jianbin, China Agricultural University, China	Changes of enzymes and microorganisms of agricultural waste materials during composting in high temperature and static state (10) GU Jie, College of Resources and Environment, Northwest Sci-Tech University of Agriculture and Forestry, China		Chances in closed-loop process control of the anaerobic digestion of biomass (440) S. Weinrich ¹ , M. Nelles ¹ , C. Wahmkow ² ¹ University of Rostock, Germany ² University of Applied Sciences Stralsund, Germany
14:20	A model coupling organic matter and organic micro-pollutants dynamics during composting (470) G. Lashermes ¹ , Y. Zhang ¹ , J.P. Steyer ² , S. Houot ¹ , Enrique Barriuso ¹ , D. Patureau ² , and P. Garnier ¹ ¹ INRA-AgroParisTech, Environment and Arable Crops Research Unit, Thiverval-Grignon, France ² INRA, Laboratory of Environmental Biotechnology, Narbonne, France	Effect of food to microorganism ratio on biohydrogen production from food waste via anaerobic fermentation (38) PAN Jinming, Zhejiang University, China	Effect of microbial inoculums on the second fermentation of composting process (15) ZHANG Mingyu, School of Chemistry and Chemical Engineering, Henan University of Technology, Zhengzhou, China		Advances in early-warning indicators of process imbalance in anaerobic digesters (30) JIA Chuanxing, Faculty of Urban Construction and Environmental Engineering, Chongqing University, China
14:40	Municipal solid waste compost application –influence of root exudates on compost decomposition and microbial activity (459) T.F.Alves, C.M.d.S. Cordovil, R. Basanta, Instituto Superior de Agronomia, Lisbon, Portugal	Safety aspects of biogasdesign (530) T. Fischer, Krieg & Fischer Consultants, Goettingen, Germany, China	L-lactic acid production from distiller's grain by lactobacillus casei under open fermentation (67) LIU Yingying, Civil and Environmental Engineering School, University of Science and Technology Beijing, China		BioEnergy-Expo – an initiative by CAAA and DLG for the development of production and training about the application of biogas in agriculture (532) LI Zhang, DLG AgroTechServices Co., Ltd., China

Poster Programme of the International Conference ORBIT 2009 CHINA

Day 1 – Day 2 19 th of November – 20 th of November				
Composting	Anaerobic digestion and Biomass	Anaerobic digestion and Biomass	Biomass use for energy and fuels	Municipal Waste
Utilization of cassava bark and chicken manure by aerobic composting(13) HOU Xianwen, Chinese Academy of Tropical Agriculture Sciences	Effects of water Hyacinth on Biogas Production Characteristics in cattle manure by Anaerobic Fermentation (08) ZHANG Luo, The Henan Academy of Sciences	The biogas production efficiency of anaerobic fermentation of different dung and straws (27) CHU Lili, Northwest A&F University, China	Study on the effect of anode material on microbial fuel cells' performance(03) KONG Xiaoying, Guangzhou Institute of Energy Conversion, China	Land ethics: the philosophic countermeasures to solve the problems of bio-waste (06) MA Guixin, ShenYang Normal University, China
Nutritional Components and Utilizations of Fresh Leaves Pruned from Platanus acerifolia L. in Early Season (50) CHEN Jianfeng, Jiangxi Agricultural University, China	Loess plateau semi-arid region low-grade biology mass energy source methane ecology pattern optimization(16) XIAN Yongping, The resource and environmental project institute of institute of technology of Wuhan, China	Between ideology and reality—discussion about rural sewer system (48) ZHANG Jian, Wanruo Environmental Engineering & Technology Co., Ltd, China	Ionic Liquids in the Preparation of Bio-diesel (32) FENG Xian, Hebei University of Science and Technology, China	Transportation of Biomass with Hydraulically Driven Solid Pumps (25) QIN Peng, Putzmeister Concrete Pumps GmbH; Paul Qin, Putzmeister Beijing Rep. Office
Effect of cathode area on electricity generation with microbial fuel cells (54) LI Lianhua, Guangzhou Institute of Energy Conversio	Study on mesophilic anaerobic co-digestion with manure, sludge and rural organic waste (20) ZHAO Jun, Liaoning Academy of Environmental Sciences, China	The effect comparisons of wastewater treatment using conventional process and MFCs (58) LI Fengxiang, Nankai University, China, China	Medium Optimazation for the growth of Clostridium autoethanogenum (51) GUO Ying, Guangzhou Institute of Energy Conversion, China	Separate collection in highrise buildings (28) F.BICKEL, GmbH&Co.KG, Sarweystr, Germany
Biological property and biocontrol effect of "compost tea" on soil-borne plant disease (71) MA Yan, Jiangsu Academy of Agricultural Science, China	Start-up operation of egbs reactor treating coking wastewater at ambient temperatuer (21) WANG Haihui, North University of china, Taiyuan, China	Utilization status and developmental strategy of biomass energy in Beijing (49) ZHOU Zhongren, Utilization status and developmental strategy of biomass energy in Beijing, China	Isolation and Identification of the Electrochemically Active and Fe(III) –Reduceing Bacterium (69) LI Ying, Guangzhou Institute of Energy Conversion Chinese Academy of sciences, China	Emission charcteristics in pyrolysis of organic medical waste (35) LI Chunyu, Zhejiang University, China
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