

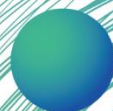
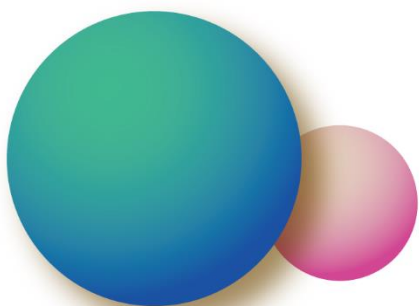


CJJC 2019

Beijing

第10届中日固体废物处理与资源循环国际会议
The 10th China-Japan Joint Conference
on Material Recycling and Waste Management

Conference Programme



北京科技大学
University of Science and Technology Beijing

能源与环境工程学院
School of Energy and Environmental Engineering

Organized By



University of Science and
Technology Beijing



Kyushu University

Co-Organized By



Tsinghua University



Beijing Forestry
University



Chinese Research
Academy of
Environmental Sciences



Shougang
Environment

Jointly-sponsored by



Tongji University



Southwest Jiaotong
University



Chongqing University



Hokkaido University



Muroran Institute
of Technology



Qingdao University of
Technology



Zhejiang Gongshang
University

Chairs

Qunhui WANG	University of Science & Technology Beijing
Takayuki SHIMAOKA	Kyushu University
Youcai ZHAO	Tongji University

Invited Guests *(alphabetical order by family name)*

Hualong HU	Ministry of Ecology and Environment of the People's Republic of China
Jinhui LI	Tsinghua University
Yuyou LI	Tohoku University
Zhaoping LU	University of Science & Technology Beijing
Kenji SAKAI	Kyushu University
Wei WANG	Tsinghua University
Kunio YOSHIKAWA	Tokyo Institute of Technology

Scientific Committee *(alphabetical order by family name)*

Xiaoli CHAI	Tongji University
Chengran FANG	Zhejiang University of Science and Technology
Zhiyong HAN	Chengdu University of Technology
Ryoji HASEGAWA	Fukuyama City University
Qifei HUANG	Chinese Research Academy of Environmental Sciences
Teppei KOIMYA	Kyushu University
Shaoyuan LEU	The Hong Kong Polytechnic University
Huiling LIU	Tongji University
Dan LIU	Southwest Jiaotong University
Yuyang LONG	Zhejiang Gongshang University
Ziyang LOU	Shanghai Jiao Tong University
Toshinari MAEDA	Kyushu Institute of Technology
Takayuki MATSUO	Hokkaido University
Toshihiko MATSUTO	Hokkaido University

Kentaro MIYAWAKI	Meisei University
Hirofumi NAKAYAMA	Kyushu University
Wen NI	University of Science & Technology Beijing
Xuya PENG	Chongqing University
Dongsheng SHEN	Zhejiang Gongshang University
Liyan SONG	Chongqing Institute of Green and Intelligent Technology
Dezhi SUN	Beijing Forestry University
Xiaojie SUN	Guilin university of technology
Yingjie SUN	Qingdao University of Technology
Fumitake TAKAHASHI	Tokyo Institute of Technology
Yukihiro TASHIRO	Kyushu University
Yu TIAN	Harbin Institute of Technology
Jianlong WANG	Tsinghua University
Jun WU	Nanjing University
Weixiang WU	Zhejiang University
Yi XING	University of Science & Technology Beijing
Jun YANG	Beihang University
Bo YUE	Chinese Research Academy of Environmental Sciences
Hideki YOSHIDA	Muroran Institute of Technology
Tiantao ZHAO	Chongqing University of Technolog
Guangming ZHANG	Renmin University of China

The 10th China-Japan Joint Conference on Material Recycling and Waste Management

Time	Aug. 23rd (Fri) The 1st day	Aug. 24th (Sat) The 2nd day	Aug. 25th (SUN) The 3rd day	Aug. 26th (Mon) The 4th day	Aug. 27th (Tue) The 5th day		
7:30	7:30-21:00 Registration (The 1st Floor, main hall, USTB Conference center / Orange Hotel)	Reception (Academic Hall)	Reception (Academic Hall)	7:30-18:30 Technical Tours			
8:00		9:00-9:25 Opening Ceremony	8:30-12:10 Teacher Sessions (Academic Hall)			9:00-12:00 Mutianyu Great Wall (Tour in Beijing)	
9:00		9:25-9:55 Group Photo (Olympic Square)					10:15-10:25 Coffee break
10:00		9:55-12:35 Keynote Speeches (Academic Hall)	10:25-12:10 Teacher Sessions (Academic Hall)			12:30-13:30 Lunch (Yu Shi Fu Restaurant)	
11:00			12:10-13:30 Lunch (Conference center)				14:00-16:30 Miyun Green Circular Economy Industrial Park (Factory Tour)
12:00							
13:00		13:30-17:40 Student Sessions 1: Landfill and Leachate Treatment Technology (Academic Hall)	13:30-16:00 Keynote Speeches (Academic Hall)			16:00-16:10 Coffee break	7:30 2019 Beijing World Horticultural Exposition (Visit individually)
14:00		15:30-15:40 Coffee break					
15:00		13:30-17:40 Student Sessions 2: Biological Treatment, Heat Treatment and Other Technologies (The sixth conference meeting room)	16:10-18:25 Keynote Speeches (Academic Hall)			18:25-18:45 Closing Ceremony	
16:00		Poster session					
17:00	17:40-21:00 Welcome banquet (Garden Hotel)	18:45-21:00 Dinner (Jiang Nan Fu Restaurant)	18:30-21:00 Buffet dinner (Wan Xiu Yuan 4F)				
18:00							
19:00							
20:00							
21:00							

Saturday, Aug. 24th, 2019

Opening Ceremony (Academic Hall of Conference Center)	
Chair: Qunhui WANG, Prof., University of Science and Technology Beijing	
09:00-09:10	Welcome Speech: Zhaoping LU, Prof. , Vice President of University of Science and Technology Beijing
09:10-09:20	Welcome Speech: Hualong HU, Prof. , Deputy Director of the Solid Waste and Chemicals Management Technology Center of the Ministry of Ecology and Environment
09:20-09:25	Opening Greeting: Takayuki SHIMAOKA, Prof. , Kyushu University
09:25-09:55	Group photo
Keynote Speech (Academic Hall of Conference Center)	
Chairs: Takayuki SHIMAOKA, Prof., Kyushu University & Youcai ZHAO, Prof., Tongji University	
09:55-10:15	Possible MSW Utilization in China Employing the Innovative Japanese Waste Conversion Technologies. Kunio YOSHIKAWA (Tokyo Institute of Technology)
10:15-10:35	Treatment of Antibiotic Fermentative Residues by Electron Beam Technology. Jianlong WANG (Tsinghua University)
10:35-10:55	Estimation and Measurement Methods for Quantity of Disaster Waste Generated. Takayuki SHIMAOKA (Kyushu University)
10:55-11:15	Recycling of Aged Refuse from MSW Landfill. Youcai ZHAO (Tongji University)
11:15-11:35	Questionnaire Survey on Construction & Operation of Roofed Landfill in Japan. Toshihiko MATSUTO (Hokkaido University)
11:35-11:55	Amendment for the Pollution Prevention Standard of MSW Landfill. Qifei HUANG (Chinese Research Academy of Environmental Sciences)
11:55-12:15	Extremely Thermophiles Found in the Hyperthermal Composting Process of Wastewater Sludge. Kenji SAKAI (Kyushu University)
12:15-12:35	Anaerobic Co-digestion of Food Waste, Waste Paper and Sewage Sludge. Yuyou LI (Tohoku University)
12:35-13:30	Lunch

Presentation Schedule

Saturday, Aug. 24th, 2019

Student Oral Sessions	Session 1: Landfill and Leachate Treatment Technology (Academic Hall of Conference Center) Chairs: Jianlong WANG, Prof., Tsinghua University & Kentaro MIYAWAKI, Prof., Meisei University	Session 2: Biological Treatment, Heat Treatment and Other Technologies (The Sixth Conference Meeting Room of Conference Center) Chairs: Yingjie SUN, Prof., Qingdao University of Technology & Toshinari MAEDA, Associate Prof., Kyushu Institute of Technology
13:30-13:45	Simulative Analysis of Vegetation on CH ₄ Emission from Landfill Cover Soils: Combined Effects of Root-water Uptake, Root Radial Oxygen Loss, and Plant-mediated CH ₄ Transport. Rongxing BIAN (Tongji University)	Improved High Solid Anaerobic Digestion of Chicken Manure by in Situ Ammonia Stripping and Its Relation to Metabolic Pathway. Shaojie BI (China Agricultural University)
13:45-14:00	Influence of Temperature Rise within an Operating Semi-aerobic Landfill on the Geomembrane Liner. HUY VU QUANG (Muroran Institute of Technology)	Characteristics of Acidogenic Fermentation for Volatile Fatty Acid Production from Food Waste at High Concentrations of NaCl. Xiaozheng HE (Zhejiang Gongshang University)
14:00-14:15	Bioremediation of Petroleum-contaminated Soil by Semi-aerobic Aged Refuse Biofilter: Optimization and Mechanism. Fan WANG (Southwest Jiaotong University)	Dehydration of Kitchen Waste and Utilization of Resource in Kitchen Waste. Ran WEI (Tongji University)
14:15-14:30	The Risk Assessment of Concentrated Leachate from Nanofiltration/Reverse Osmosis. Hui WANG (Shanghai Jiao Tong University)	Comparative Assessment of Two-stage Anaerobic Digestion for the Treatment of Chicken Manure: Hyper-thermophilic Pretreatment and Mesophilic AnMBR. Dongmin YIN (China Agricultural University)
14:30-14:45	Experimental Study on the Treatment of Aged Landfill Leachate in a Combined Process Consisting of a Powdered Activated Carbon Anoxic Biofilter and a SBR Reactor. Danyang LI (Nanjing University)	Hydrogen Production of Microbial Electrolysis Cell Feeding With Fermentation Liquid of Different Pretreated Sludge. Yihong KE (Fujian Normal University)
14:45-15:00	An Innovative Bioreactor System for Aged Leachate Treatment by Reutilization of the Waste Container, Used Cloths and Animal Bones. Tian LI (Tongji University)	Enhanced 5-Hydroxymethylfurfural Production from Green Waste by Mechanochemistry. Ying ZHOU (Zhejiang Gongshang University)

Saturday, Aug. 24th, 2019

15:00-15:15	Molecular-level Insights into the Transformation Mechanism of Mature Landfill Leachate in a Combined Process of Semi-aerobic Aged Refuse Biofilter and Chemical Oxidation. Weiming CHEN (Southwest Jiaotong University)	Fate of Heavy Metal in the Sludge of a Forward Osmosis Membrane Bioreactor for Anaerobic Digestion. Yunian LI (Beijing Forestry University)
15:15-15:30	Dechlorination of Chlorotoluene Rectification Residual Liquid (CRRL) by Using Williamson Ether Synthesis (WES) Method. Zhiyuan JIN (Zhejiang Gongshang University)	In-situ H ₂ S Removal from Anaerobic Biogas of Chicken Manure by Injecting Air. Yunlong SONG (China Agricultural University)
15:30-15:40	Coffee break	
Student Oral Sessions	Session 1: Landfill and Leachate Treatment Technology (Academic Hall of Conference Center) Chairs: Guangming ZHANG, Prof., Renmin University of China & Ryoji HASEGAWA, Associate Prof., Fukuyama City University	Session 2: Biological Treatment, Heat Treatment and Other Technologies (The Sixth Conference Meeting Room of Conference Center) Chairs: Yuyou LI, Prof., Tohoku University & Yuyang LONG, Prof., Zhejiang Gongshang University
15:40-15:55	Influence of Heavy Rain due to Climate Change on Leachate Behavior of Landfill with Municipal Solid Waste Incineration Residues. Hiroto TAMURA (Kyushu University)	Development of Hydrothermal Technology for the Effective Destruction of Refractory PFAS. Boran WU (Tongji University)
15:55-16:10	Effective Treatment of Concentrated Leachate by Two Stages of Electrochemical Oxidation Process. Xu REN (Southwest Jiaotong University)	Municipal Solid Waste Incineration Fly Ash Utilization as Heat Carrier for Fluidized Bed Incinerators. Giun JO (Tokyo Institute of Technology)
16:10-16:25	Study on Leaching Characteristics of Waste Incineration Fly Ash and Leachate Concentrate Treated by Solidification Method. Ning CHE (Qingdao University of Technology)	5-Hydroxymethylfurfural Production from Watermelon Peel by Microwave Hydrothermal Liquefaction. Yuchao SHAO (Zhejiang Gongshang University)
16:25-16:40	Enhanced Treatment of Refractory Organics in Semi-aerobic Aged Refuse Biofilter Effluent from Treating Landfill Leachate by Fenton-like Processes. Zhepei GU (Southwest Jiaotong University)	Study of the Fly-ash-based Granular Composite Material: Characteristics and Application for Phosphorus Final Treatment. Zhiyuan LI (Nanjing University)

Presentation Schedule

Saturday, Aug. 24th, 2019

16:40-16:55	Calculation of Salt Balance in Circulating Wash Water of Plastic Wastes from Landfill. <u>Peikang LUO</u> (Nanjing University)	Mechanism and Effect of Terminal Temperature on the Morphological Characteristics of Heavy Metals of Biochar Derived from Waste Paper and Kitchen Waste. <u>Shuangchao WANG</u> (Chengdu University of Technology)
16:55-17:10	Investigation of Two Aeration Systems in the Dynamics of Physicochemical and Bacterial Characteristics in the ATAD Process. <u>Min ZHANG</u> (Kyushu University)	Recycling for Copper Derived from Silica Slag by Acid Leaching. <u>Dan ZHOU</u> (Zhejiang Gongshang University)
17:10-17:25	Emissions of Greenhouse Gas (GHG) from Wastewater Treatment Plants (WWTPs): A Case Study of the WWTP in China. <u>Zhiyi LIANG</u> (The University of Kitakyushu)	Modification of Coal Fly Ash with Polymer on Biodegradable Porous Composites Synthesis. <u>Mengzhu SONG</u> (Tokyo Institute of Technology)
17:25-17:40	Utilization of MSW Leachate for Dechlorination of Fly Ash. <u>Menglu WANG</u> (University of Science and Technology Beijing)	Effects of Biochar Application on Greenhouse Gas Reduction from Paddy Soil. <u>Wan CHEN</u> (Fujian Normal University)

Sunday, Aug. 25th, 2019

Teacher Session (Academic Hall of Conference Center) Chairs: Shaoyuan LEU, Associate Prof., The Hong Kong Polytechnic University & Hirofumi NAKAYAMA, Associate Prof., Kyushu University	
08:30-08:45	Water Body Ecological Restoration Technology and Its Application. <u>Xiaoli CHAI</u> (Tongji University)
08:45-09:00	KURITA Latest Waste Management Technologies. <u>Takeshi YAMASAKI</u> (Kurita Water Industries Co., Ltd.)
09:00-09:15	A Novel Spatiotemporally Anaerobic Semi-aerobic Bioreactor for Domestic Solid Waste Treatment in Rural Areas. <u>Zhiyong HAN</u> (Chengdu University of Technology)
09:15-09:30	Application and Operation Report of Auto Combustion Control (ACC) Technology in Chinese WtE Plants. <u>Defu JI</u> (Ebara Qingdao CO., Ltd.)
09:30-09:45	Occurrence of Poly- and Perfluoroalkyl Substances (PFASs) in Landfill and Incineration Leachates in Chongqing, China. <u>Xiaoming WANG</u> (Chongqing University)
09:45-10:00	Antibiotics and Antibiotic Resistance Gene Levels in Municipal Solid Waste Leachates in Seven Cities, China. <u>Yangqing WANG</u> (Chongqing Institute of Green and Intelligent Technology, Chinese Academy of Sciences)
10:00-10:15	Assessment on the Degree of Stabilization of Lead in MSWI Fly Ash by Different Particle Sizes of Waste Fishbone Hydroxyapatite. <u>Mitali Nag</u> (Kyushu University)
10:15-10:25	Coffee break
Teacher Session (Academic Hall of Conference Center) Chairs: Xiaoli CHAI, Prof., Tongji University & Jun ZHANG, Associate Prof., Harbin Institute of Technology	
10:25-10:40	Effective Stabilization of Antimony in Waste-to-Energy Fly Ash with Recycled Laboratory Iron-rich Residuals. <u>Huawei WANG</u> (Qingdao University of Technology)
10:40-10:55	Potential Analysis of Common Disposal Methods of Rural Household Waste Basing on Its Current Characteristics in China. <u>Bo YUE</u> (Chinese Research Academy of Environmental Sciences)
10:55-11:10	VFA Production from Fermentation Residue: Effect of Pretreatment and pH. <u>Hongzhi MA</u> (University of Science and Technology Beijing)

Presentation Schedule

Sunday, Aug. 25th, 2019

11:10-11:25	Microbial Ecology During Solid Waste Decomposition. Liyan SONG (Chongqing Institute of Green and Intelligent Technology, Chinese Academy of Sciences)
11:25-11:40	Aged Refuse Accelerates Anaerobic Sludge Fermentation to Produce Short Chain Fatty Acids. Jianwei ZHAO (Qingdao University of Technology)
11:40-11:55	Pyrolysis of Wood Waste to Yield Biochar and Its Use in Nutrient Recycling from Human Urine Through Adsorption and Precipitation. Kangning XU (Beijing Forestry University)
11:55-12:10	Removal of Fine Particle Fraction from Municipal Solid Waste Incineration Bottom Ash by Open Channel Classification. Teppei KOMIYA (Kyushu University)
12:10-13:30	Lunch
Keynote Speech (Academic Hall of Conference Center) Chairs: Toshihiko MATSUTO, Prof., Hokkaido University & Dan LIU, Prof., Southwest Jiaotong University	
13:30-13:45	Stimulation of Methanogenic Treatment of Organic Solid Waste and Its Leachate by Incorporating Conductive Materials via Direct Interspecies Electron Transfer. Dezhi SUN / Yan DANG (Beijing Forestry University)
13:45-14:00	Dehydration and Deep Drying of Municipal Sludge at Low Temperatures. Yi XING (University of Science and Technology Beijing)
14:00-14:15	Full-chain Utilization of Sewage Sludge for Value-addition Based on Carbon Capture + Anaerobic Digestion + Pyrolysis Techniques. Yu TIAN / Jun ZHANG (Harbin Institute of Technology)
14:15-14:30	Study on Management of Wood Debris Induced by Northern Kyushu Heavy Rain in July 2017 Using Aerial Survey and 3D Modelling. Hirofumi NAKAYAMA (Kyushu University)
14:30-14:45	A Novel Aerobic Sulfate Reduction Process in Landfill Mineralized Refuse. Yuyang LONG (Zhejiang Gongshang University)
14:45-15:00	Neutralization of Landfilled Incinerator Ash Layer by Atmospheric CO ₂ . Kentaro MIYAWAKI (Meisei University)
15:00-15:15	Pyrolysis Carbonization of Agriculture Waste for Green Development. Weixiang WU (Zhejiang University)
15:15-15:30	Control of Meta-fermentation Process for Valuable Substance Products from Food Waste. Yukihiro TASHIRO (Kyushu University)

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Sunday, Aug. 25th, 2019

15:30-15:45	Treatment Technology and Safety Discussion of Antibiotic Mycelial Residue. Huiling LIU (Tongji University)
15:45-16:00	Preparation of Biochar for Premoval. Guangming ZHANG (Renmin University of China)
16:00-16:10	Coffee break
Keynote Speech (Academic Hall of Conference Center)	
Chairs: Kenji SAKAI, Prof., Kyushu University & Weixiang WU, Prof., Zhejiang University	
16:10-16:25	Synergistic Utilization of MSWI Fly Ash with Cemented Filling Mining Method. Wen NI (University of Science and Technology Beijing)
16:25-16:40	Potential of Diol Pretreatment in Urban Biorefinery Toward Sustainable Waste Management. Shaoyuan LEU (The Hong Kong Polytechnic University)
16:40-16:55	Zero to One: Insects Digest Plastics. Jun YANG (Beihang University)
16:55-17:10	Bacterial Quorum Sensing to Regulate Methane Fermentation Using Waste Sewage Sludge. Toshinari MAEDA (Kyushu Institute of Technology)
17:10-17:25	Municipal Solid Waste Incineration Fly Ash in China: Status and Challenge? Yingjie SUN (Qingdao University of Technology)
17:25-17:40	Environmental Effect of Co-landfilling Between Construction Waste and Organic Waste. Ziyang LOU (Shanghai Jiao Tong University)
17:40-17:55	Analyzing Waste Management Considering Material Flow and Economic Influence: A Case Study of Non-metallic Mineral Wastes in Japan. Ryoji HASEGAWA (Fukuyama City University)
17:55-18:10	Development Prospect Analysis of "Zero-emission Technology" in Chinese Solid Waste Field. Wei WANG / Ming ZHAO (Tsinghua University)
18:10-18:25	Zero Waste Initiative in China: from Concept to Practice. Jinhui LI (Tsinghua University)
Presentation award ceremony	
Closing Remarks and Arrangement of CJJC 2020	

Presentation Schedule

Saturday -Sunday, Aug. 24-25th, 2019

Poster Presentation	
1	Mechanism Insights into Polyhydroxyalkanoate-based Denitrification through Regulating the Expression of Pericytoplasmic Nitrate Reductase. <u>Meng ZHOU</u> (Tongji University)
2	Diverse Roles of Magnesium Curing Agent on the Pyrolysis of Municipal Sludge towards for the Energy Recovery and Porous Carbon Production. <u>Shuya WU</u> (Tongji University)
3	In Situ Dechlorination of Organic Hazardous Waste and Capture of Chlorine in Salt with Parachlorophenol as a Model Compound Using Molten NaOH-Na ₂ CO ₃ . <u>Yilin ZHENG</u> (Tongji University)
4	Altering Sequence Biofilter Combined with Powder Active Carbon Absorption to Treat Aged Landfill Leachate. <u>Yuchun WANG</u> (Nanjing University)
5	Deodorization of Malodorous Compounds from Excavated Refuse by In-series Aged-refuse-biofilter in Laboratory. <u>Guantong JIAO</u> (Nanjing University)
6	Leaching Behavior of Heavy Metals in Simulated Co-landfill Disposed with Municipal Solid Waste and Stabilized Incineration Fly Ash under Intermittent Aeration Conditions. <u>Yanan WANG</u> (Qingdao University of Technology)
7	Potential of Oxygen Recycling from Spaceflight Solid Waste (SSW) by Hydrothermal Process. <u>Rui SHI</u> (Chengdu University of Technology)
8	The Application of Humified Media Filter (HF) in the Treatment of Decentralized Domestic Sewage. <u>Zhengwei ZHOU</u> (Changzhou University)
9	New Model of Hog Manure Treatment for Sustainable Recycling Society. <u>Jun KABAYA</u> (Hitachi Zosen Corporation)

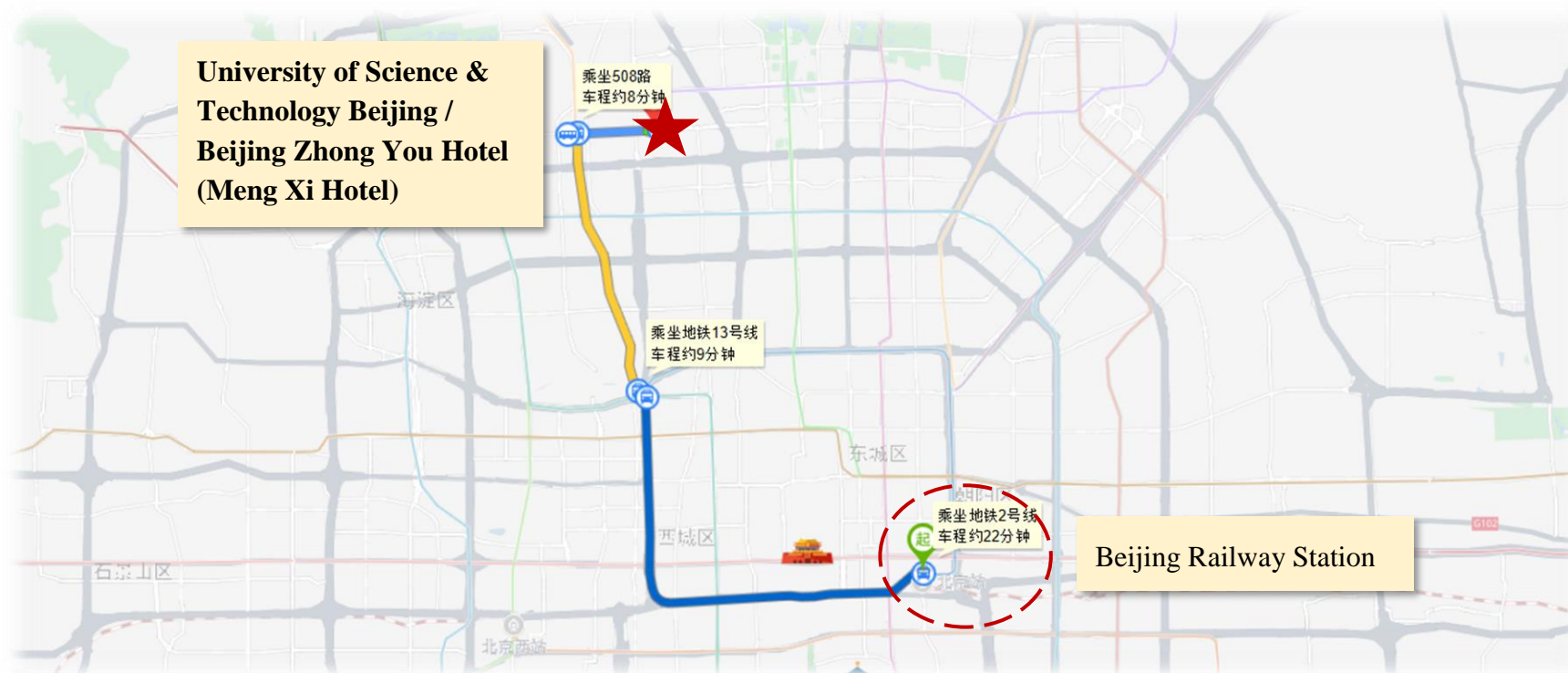
Beijing Capital International Airport

Taxi	Around 30 km, 1 h, 100 RMB.
Subway	Airport Line → Sanyuanqiao subway station (三元桥站) → Subway line 10 → Mudanyuan subway station (牡丹园站) → Taxi (3 km, 10 min, 14 RMB)



Beijing Railway Station

Taxi	Around 20 km, 30 min, 60 RMB
Subway	Subway line 2 → Xizhimen subway station (西直门站) → Subway line 13 → Wudaokou subway station (五道口站) → Taxi (1.7 km, 10 min, 14 RMB)



Beijing West Railway Station

Taxi	Around 15 km, 30 min, 50 RMB
Subway	Subway line 9 → National Library of China subway station (国家图书馆站) → Subway line 4 → Zhongguancun subway station (中关村站) → Taxi (4.5km, 11 min, 18 RMB)



Beijing South Railway Station

Taxi	Around 15 km, 30 min, 50 RMB
Subway	Subway line 4 → National Library of China subway station (新街口站) → Subway line 13 → Wudaokou subway station (五道口站) → Taxi (1.7 km, 10 min, 14 RMB)



Route to Hotel, Route to Venue



The 10th China-Japan Joint Conference on Material Recycling and Waste Management

23-27 August, 2019, Beijing, China

At Conference Center, University of science and Technology Beijing

Name	Mobile phone	Task
Qunhui WANG / 汪群慧	+86-13426193851	General
Hongzhi MA / 马鸿志	+86-13426135537	Accommodation
Chuanfu WU / 吴川福	+86-15810499983	Conference report
Ming GAO / 高明	+86-18510989697	Registration
Xiaona WANG / 王晓娜	+86-15201451506	Catering
Yong JIN / 靳勇	+86-18612001912	Transportation
Wenbin ZHU / 朱文彬	+86-18813127684	Conference material
Yuansheng XU / 徐元晟	+86-17356201851	Poster presentation
Ting LIU / 刘听	+86-18401619824	Shuttle vehicle
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Secretariat of the conference

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