**The 19th International Conference**

**on Waste Management and Technology**

**Draft Agenda**

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| Venue | Hangzhou Baimahu International Convention and Exhibition Center, Hangzhou, China |
| Date | 9:00-18:30 May 18-20, 2024 (UTC/GMT +8.00) |
| Host | Tsinghua University |
| United Nations Environment Programme China Office |
| Zhejiang Gongshang University |
| International Waste Working Group |
| Organizer | Basel Convention Regional Centre for Asia and the Pacific (BCRC China) |
| Hangzhou Binjiang Environmental Development Co., LTD |
| The Society of Solid Waste of Chinese Society for Environmental Sciences |
| Circular Economy Branch, Chinese Society for Environmental Sciences |
| China Association of Environmental Protection Industry Solid Waste Treatment and Utilization Division |
| Environment Management Professional Committee, Society of Management Sciences of China |
| Stockholm Convention Regional Centre for Capacity-building and the Transfer of Technology in Asia and the Pacific |
| Co-organizer | Institute of Solid Waste Pollution Control Technology, Chinese Research Academy of Environmental Sciences |
| Center for Innovation of Zero-waste Society, Chinese Academy of Environmental Planning |
| Zhejiang Weidun Environmental Technology Co., Ltd. |
| Hangzhou Linjiang Environmental Energy Co.Ltd. |
| Supporter | Circular Economy (Journal) |
| Frontiers of Environmental Science & Engineering (Journal) |
| Environmental Protection Science (Journal) |
| United Nations University |
| China ENFI Engineering Corporation |
| Zhefu Holding Group Co.,Ltd. |
| Huzhou Chengtai Fluoroplastic Environmental Protection Recycling Co. Ltd. |
| BMEI CO., Ltd. |
| Zhejiang Environmental Protection Group Eco-Environmental Research Institute Co., Ltd |
| Hangzhou Qiandao Lake Raw Water Co., LTD |
| Henan Tianchen Xinyuan Environmental Protection Technology Research Institute Co., Ltd |
| Foshan Shunde Xinhuanbao Resource Utilization Co., LTD |
| Jiangxi Green Recycling Co.,Ltd. |
| Guizhou Xinjinlong Environmental Protection Technology Co., LTD |
| Chairman of Scientific Committee | Prof. Jiming HAO  Academician, Chinese Academy of Engineering/International Member, National Academy of Engineering (USA)  Professor of School of Environment, Tsinghua University |
| Chairman of ICWMT | Prof. Jinhui LI  Executive Director of BCRC China/Professor of School of Environment, Tsinghua University, Distinguished Professor of the "Changjiang Scholars Award Program" of Ministry of Education |

1. **Plenary (on site)**

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| **May 18, 2024 Saturday** | |
| Zoom：<https://kashui-media.zoom.us/j/83976158569?pwd=MjbY6iGtYBqFtPTxOWAVJLReld7Kss.1>  Meeting ID: 839 7615 8569 Passcode: 225632 | |
| 9:00-9:50 | **Opening** **Ceremony**  Chaired by Prof. Jinhui LI, Executive Director of Basel Convention Regional Centre for Asia and the Pacific, Professor of School of Environment, Tsinghua University, Distinguished Professor of the "Changjiang Scholars Award Program" of the Ministry of Education   * Hangzhou Municipal People's Government * Department of Ecology and Environment of Zhejiang Province * **Prof. Jiming HAO**,Chairman of ICWMT 19 Scientific Committee * **Mr. Rolph Payet**,Secretariat of the Basel, Rotterdam and Stockholm Conventions * **Mr. Chengzhan GUO**, China Association of Environmental Protection Industry * Ministry of Ecology and Environment of the People’s Republic of China |
| 9:50-12:00 | **Academician Forum Ⅰ:**  Chaired by Mr. Hualin ZHAO, Former Chairman of the Board of Supervisors of key state-owned large enterprises, Chairman of micro-energy network collaborative innovation platform and carbon neutral green development innovation platform   * **Prof. Xiangwan DU**, Academician and former deputy director of the Chinese Academy of Engineering, advisor for the National Expert Committee on Climate Change * **Prof. Ning DUAN**，Academician of the Chinese Academy of Engineering, Professor of the China Research Academy of Environmental Sciences * **Prof. Qi Wang**, Academician of the Chinese Academy of Engineering, professor of Sichuan University * **Prof. Li-an HOU**, Academician of the Chinese Academy of Engineering, Professor of the Chinese People's Liberation Army Rocket Force Engineering University |
| 14:00-15:20 | **Academician Forum Ⅱ:**  Chaired by Prof. Zuxin XU, Academician of the Chinese Academy of Engineering, Professor of the School of Environmental Science and Engineering, Tongji University   * **Prof. Fengchang WU**, Academician of the Chinese Academy of Engineering, Deputy Chief Engineer and Professor of the Chinese Academy of Environmental Sciences, Director of the State Key Laboratory of Environmental Criteria and Risk Assessment * **Prof. Liyuan CHAI**, Academician of the Chinese Academy of Engineering, Vice President of Central South University * **Prof. Jun MA**, Academician of Chinese Academy of Engineering, Vice President and Professor of School of Environment, Harbin Institute of Technology (TBD) * **Prof. Xiang GAO**, Academician of Chinese Academy of Engineering, President and Deputy Party Secretary of Zhejiang University of Technology (TBD) * **Prof. Seeram Ramakrishna**, National University of Singapore, Academician of Royal Academy of Engineering (FRENG), Singapore Academy of Engineering, Indian National Academy of Engineering, and Foreign academician of Chinese Academy of Engineering * **Prof. Thomas H. Christensen**, Technical University of Denmark, Academician of the Royal Danish Academy of Sciences |
| 15:20-16:20 | **Zero-waste City Mayor Forum**   * Topic: Zero Waste Initiatives under the UN General Assembly Resolution (30min, Online) **Mr.Takehiro Nakamura,** UNEP * Questions & Answers (10min) * Topic: Waste management in Sihanoukville (15 min)   **Mr. EAM Sarin**,Vice mayor of Sihanoukville, Preah Sihanouk Province   * Zero-waste Practice in the Palmerston North, New Zealand (5 min, Video)   **Mr. Grant Smith**, Mayor of Palmerston North,Manawatu-Wanganui, New Zealand |
| 16:20-18:30 | **Invited Keynote Speech**   * Topic: Progress of "Zero-Waste City" Construction during the 14th Five-Year Plan Period (TBD) Department of Solid Waste and Chemicals, Ministry of Ecology and Environment * Topic: TBD **Ms. Tessa Goverse,** Science-Policy Panel to contribute further to the sound management of chemicals and waste and to prevent pollution * Topic: TBD **Prof. Xiaohu DAI**, Dean of School of Environmental Science and Engineering, Tongji University * Topic: The metabolism features and trade structure of China’s critical metals **Prof. Yong GENG**, Dean of Environment Department, Shanghai Jiao Tong University * Topic: Integrating Quality Education in Sustainable and Responsible Consumption Practices for Achieving the United Nations SDGs **Dr. Anupam Khajuria**, United Nations University |
| **May 19, 2024 Sunday** | |
| 9:00-10:20 | **Hazardous Waste**   * Topic: Intelligent promotion of hazardous waste incineration technology **Prof. Fei WANG**, Zhejiang University * Topic: Resource technology and industrial development of domestic waste incineration fly ash **Prof. Yang CHEN**, University of Chinese Academy of Sciences/National Environmental Protection Engineering Technology Center for Mercury Pollution Prevention and Control * Topic: Chemical and biological reduction of Cr(VI) **Prof. Dongyun DU**, Vice President, South-central University for Nationalities * Topic: Green recycling of new energy and solid waste **Prof. Zhi SUN**, Institute of Process Engineering, Chinese Academy of Sciences |
| 10:20-12:00 | **Industrial Solid Waste**   * Topic: Low-carbon preparation and application of solid waste based environmental functional materials **Prof. Haobo HOU**, Wuhan University * Topic: The green resource utilization of electrolytic manganese slag by pulse electrochemical technology **Prof. Lin TANG**, College of Environmental Science and Engineering, Hunan University * Topic: Solid waste circular utilization by slurry electrolysis **Prof. Mengjun CHEN**, Southwest University of Science and Technology * Topic: High temperature and low temperature treatment of MSWI fly ash with other industrial solid wastes **Prof. Xiaoming LIU**, School of Metallurgical and Ecological Engineering, University of Science and Technology Beijing * Flash Joule heating for waste management and critical metals recovery **Dr.Bing DENG,** School of Environment, Tsinghua University |
| 14:00-18:35 | **Household Refuse and Renewable Resources**   * Topic: Evaluation and prospect of domestic waste classification from a global perspective **Prof. Jianguo LIU**, Director, Division of Solid Waste Management, School of Environment, Tsinghua University * Topic: TBD **Prof. Hongtao WANG**, Director of the Department of Environmental Engineering, School of Environment, Tsinghua University * Topic: Research progress on ecology of waste rubber pollution **Prof. Li-an DUO**, School of Life Sciences, Tianjin Normal University * Topic: Whole industry chain solution for waste tires **Prof. Guangming LI,** Tongji University * Topic: Synthesis of functional materials from waste plastics for heavy metal pollution control **Prof. Fushen ZHANG**, Solid Waste Treatment and Recycling Department at Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences |
| **Biomass Waste**   * Topic: Biomass/wastes into energy: emering technology and prolytic-gasification development **Prof. Guanyi CHEN**, Tianjin University of Commerce * Topic: Biomass/organic wastes directional thermal conversion into high-quality liquid fuels, carbon materials and syngas **Prof. Huiyan ZHANG**, Southeast University * Topic: Photocatalytic selective value-added oxidation of biomass-based platform molecules 5-hydroxymethylfurfural **Prof. Xuebin LV**, Tibet University * Topic: Technical Pathways and Challenges in Food Waste Recycling **Prof. Qingliang ZHAO**, Harbin Institute of Technology * Topic: ”Bottleneck” problems of kitchen waste composting and its solution **Prof. Weixiang WU**, Institute of Environmental Pollution Control, Zhejiang University |
| **May 20, 2024 Monday** | |
| 9:00-10:40 | **Zero-waste City Demonstration**   * Topic: Investment and financing channels for the construction project of "zero-waste city" **Mr. Liang CHENG**, Director of the Institute of Investment and Industrial Synthesis, Environmental Planning Institute, Ministry of Ecology and Environment * Topic: Innovation of Green, Low Carbon Recycling Model for Industrial Solid Waste and Industrial Symbiosis Demonstration Cases. **Prof. Longpeng CUI**, Academic Vice Dean and Professor of School of Carbon Neutrality Science and Engineering, Anhui University of Science and Technology * Topic: Research and Application of Whole Process Management for the Construction of " Zero-waste Construction Site " **Prof. Guanyou LU**, China Building Technology Center |
| 10:40-11:40 | **Industrial Solid Waste**   * Topic: Collaborative research on pollution reduction and carbon reduction: An exploration based on the perspective of whole life cycle **Prof. He XU**, Institute of Ecological Civilization, Nankai University * Topic: Study on carbon dioxide capture and utilization of waste incineration flue gas **Prof. Guohua JING**, Huaqiao University * Topic: Carbon Capture From Solid Waste Incineration Flue Gas **Prof. Shihan ZHANG**, Zhejiang University of Technology |
| 11:55-12:10 | **Closing Ceremony**   * **Prof. Yong CHEN,** Academician of Chinese Academy of Engineering, Academician of International Eurasian Academy of Sciences, Professor and Chief Scientist of Guangzhou Institute of Energy Research, Chinese Academy of Sciences * **Prof. Hualoong HU,** Deputy Director of Solid Waste and Chemical Management Center, Ministry of Ecology and Environment of China * **Prof. Jinhui LI**, Executive Director of Basel Convention Regional Centre for Asia and the Pacific, Professor of School of Environment, Tsinghua University, Distinguished Professor of the "Changjiang Scholars Award Program" of the Ministry of Education |

1. **Parallel Plenary (hybrid)**

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| **May 19, 2024 Sunday** | |
| 9:00-10:30 | * Topic: Planetary Boundary Specifications for E-waste Management Prof. **Oladele·A Ogunseitan**, University of California (Irvine) * Topic: Harnessing Ureolytic Bacteria for Heavy Metal Remediation in E-Waste: Insights from Microbially Induced Carbonate Precipitation **Prof.Varenyam Achal**, Professor and Deputy Dean of Undergraduate Studies, Guangdong Technion – Israel Institute of Technology * Topic: Life Cycle Carbon Neutral: Carbon neutral production, consumption and disposal of all materials **Prof. Minoru FUJII**, National Institute for Environmental Research |
| 10:30-11:45 | **Zero-waste City Mayor Forum**   * Auckland’s Zero Waste Journey (15 min, Online)   **Parul Sood**, General Manager Waste Solutions, Auckland Council, New Zealand   * Zero Waste Initiative in Balcarce City, Agentina (15 min) **Ms. Leila Devia**, Lawyer Professor, Municipality of Balcarce, Buenos Aires Province, Agentina, representing Mayor of Balcarce City, Dr. Esteban Andres Reino * Zero Waste Initiative in Surakarta city, Indonesia (15 min, Online) TBD * Solid waste treatment project in Zahle, Lebanon (15 min) **Ms. Rima Saade Turk**, Initiative Coordinator, representing Mayor of Zahle City, Mr. Assad Zoghaib * Solid waste treatment in Zirba, Tunisia (15 min, Online) **Ms. Raja Oueslati**, Initiative Coordinator, representing Mayor of Zirba city, Tunisia, Mr. Abbassi Mansouri (Online) |
| 11:45-12:00 | **Panel Discussion** (15 mins)   * **Mr. Alberto Santos Capra**, Director, Basel Convention Regional Centre for Training and Technology Transfer for the South American Region, Argentina (BCRC Argentina) * **Mr. Moustafa Ahmed**, Director, Basel Convention Regional Centre for Training and Technology Transfer for the Arab States in Egypt (BCRC Egypt) * **Mr. Mehdi Sameni**, Director, Basel and Stockholm conventions Regional Centre, Iran (BCRC Iran) * **TBD,** Basel Convention Regional Centre for Training and Technology Transfer for South-East Asia, Indonesia (BCRC Indonesia) |
| 14:00-18:10 | * Topic: Material flow analysis of plastic packaging and sing-use Prof. **Seung-Whee Rhe**e, Kyonggi University, Korea * Topic: First Evidence of Gaseous Elemental Mercury Emissions from Informal E-Waste Recycling Facilities in Pakistan **Prof. Jabir Hussain Syed**, Islamabad Communication Satellite University * Topic: Decarbonization and Circular Economy in India Prof. **SADHAN KUMAR Ghosh**, Jadap University, India * Topic: TBD **Prof. Zhifu MI**, University College London * Topic: Economics of waste **Prof. Johannes Sauer**, Technical University of Munich, Germany * Topic: Waste Management: Moving from Linear to Circular Economy Prof. **Hani ABU QDAIS**, Jordan University of Science and Technology * Topic: Heavy metals and POPs in air and road dusts in the vicinity of municipal waste landfills and medical waste incineration: Ecological and Health Risk Assessment Prof. **Md. Ahsan Habib**, Department of Chemistry, University of Dhaka |

1. **Sub-forum**

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| No. | Title | May 19 AM | May 19 PM | May 20 AM |
| 1 | "Zero-waste City" Construction Management and Practice Forum |  |  |  |
| 2 | Solid Waste Utilization & Synergetic Benefits of Pollution and Carbon Reduction |  |  |  |
| 3 | Carbon Neutrality and Solid Waste Low Carbon Management |  |  |  |
| 4 | SynergyDevelopmentofCarbonNeutralityandRecyclingSystem |  |  |  |
| 5 | Low-carbon Treatment Technology and Application of Multi-source Solid Waste |  |  |  |
| 6 | The 4th Interdisciplinary Frontier Academic Seminar on Material Cycle and Carbon Neutrality |  |  |  |
| 7 | Synergistic Effect of Resource Recycling Management and Pollution Reduction and Carbon Reduction |  |  |  |
| 8 | Policy Mix and Technological Synergism for Forwarding the Net Zero Society |  |  |  |
| 9 | The 2nd Seminar of Integrated Pollution Prevention, Carbon Emissions Reduce & Control of Mine Solid Waste and EOD Practice |  |  |  |
| 10 | Efficient Resource Utilization Technology and Path for Organic Solid Waste under Dual Carbon Targets |  |  |  |
| 11 | Circular Economy and Urban Mineral Exploitation |  |  |  |
| 12 | Management Innovation of “Urban Mining” Resource Utilization |  |  |  |
| 13 | Integrating Sustainable Education and Responsible Consumption Practices into achieving the United Nations Sustainable Development Goals |  |  |  |
| 14 | Asia Pacific Regional Meeting in preparation for the third session of the ad hoc open-ended working group on a science-policy panel on chemicals, waste and pollution prevention(May 20-21, Conclave) |  |  |  |
| 15 | Prevention and Control of Health Risks of Emerging Contaminants and Influencing Mechanism |  |  |  |
| 16 | The 4th Integrated Pollution Prevention & Control of Industrial Solid and Hazardous Waste & Contaminated Site |  |  |  |
| 17 | Industrial Solid Waste/Hazardous Waste Containing Heavy Metals High-value Resources Utilization Technology Equipment and Collaborative Carbon Reduction |  |  |  |
| 18 | Innovation and Development on Solid/Hazardous Waste Disposal and Resource Utilization Technology System |  |  |  |
| 19 | Technological Innovation and Practice of Medical Waste Treatment and Disposal |  |  |  |
| 20 | Solid Waste Pollution Control and High-Efficient Recycling |  |  |  |
| 21 | Synergistic Technologies to Reduce Pollution and Carbon Emissions from Bulk Solid Waste |  |  |  |
| 22 | Comprehensive Utilization and Ecological Restoration of Phosphogypsum |  |  |  |
| 23 | Interaction between Sludge Bioflocs and Emerging Pollutants |  |  |  |
| 24 | Management and Resource Utilization of Industrial organic Solid Waste |  |  |  |
| 25 | Organic Solid Waste Treatment and Resource/Energy Recycling |  |  |  |
| 26 | Hydrothermaltechnology for Organic Wastes Conversion |  |  |  |
| 27 | Recycling Utilization of Urban and Rural Organic Waste |  |  |  |
| 28 | Bioenergy Production from Agricultural Waste and Pollution Control |  |  |  |
| 29 | Biomass Waste Treatment and Energization |  |  |  |
| 30 | Clean, Efficient and Low-carbon Technology for Waste Biomass Utilization |  |  |  |
| 31 | Control of Pollutants from Solid Waste Incineration |  |  |  |
| 32 | Waste Recycling to Produce Value-added Products: Role of Pyrolysis |  |  |  |
| 33 | Emerging Contaminants Caused by Environmental Aging of Plastics |  |  |  |
| 34 | Low-carbon High-value Conversion of Plastic Waste-Innovation and Practice |  |  |  |
| 35 | Seminar on Remediation and Management Strategies of Municipal Solid Waste Landfills（May 18,pm, Conclave） |  |  |  |
| 36 | Environmental Effects of New Pollutants and Green Control and Remediation in Industrial pollution sites |  |  |  |
| 37 | Ecological Restoration ofMunicipal solid wasteLandfill Sites |  |  |  |
| 38 | Ecological Green Storage, Landfill and Risk Management of Solid Waste |  |  |  |
| 39 | Polluted Site Remediation and Environmental Regulation |  |  |  |
| 40 | Symposium on the journal Circular Economy（Conclave） |  |  |  |
| 41 | E-Waste Pollution Control and Recycling |  |  |  |
| 42 | Power Battery Recycling and Synergistic Efficiency |  |  |  |
| 43 | Environmental Risk Prevention and Reutilization of New Energy Solid Waste |  |  |  |
| 44 | Reshaping the Sustainable Circular Value Chain |  |  |  |
| 45 | Material Metabolism and Resource Recycling |  |  |  |
| 46 | Environmental Management and Pollution Control of PFOS-Containing Wastes |  |  |  |
| 47 | Student Forum |  |  |  |