



icRS 2026

***2026 International
Conference on
Resource
Sustainability***

**June 15-17, 2026
Cebu, Philippines**

www.icrsconf.com

**De La Salle University
University of San Jose-Recoletos**

2026 International Conference on Resource Sustainability

(icRS 2026)

Welcome to icRS 2026!

The sustainable development of human society depends on resources. Addressing critical societal challenges, such as climate change, resource depletion, and environmental protection, requires sustainable management of resources using interdisciplinary approaches.

The [International Conference on Resource Sustainability \(icRS\)](#) series serves as an international platform for researchers and practitioners around the world with diverse backgrounds and expertise to share the most recent ideas, outcomes, and practices on resource sustainability.

icRS embraces interdisciplinarity, welcoming contributions from ANY discipline, including natural sciences, social sciences, and engineering, on ANY aspect of resource sustainability. We define resource broadly, including physical resources, biological resources, and "misplaced" resources:

- physical resources: metals, non-metallic minerals, energy, water, etc.
- biological resources: food, forestry, land, ecological systems, etc.
- "misplaced" resources: air emissions, water pollutants, solid waste, etc.

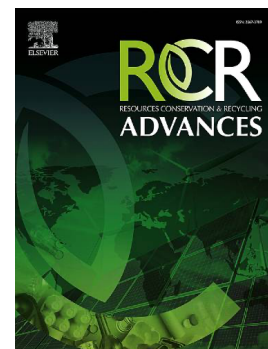
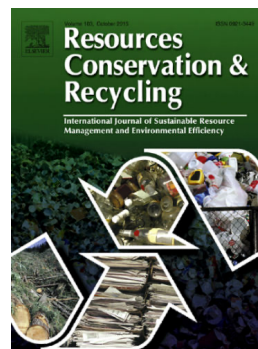
icRS 2026, **co-hosted by De La Salle University and University of San Jose-Recoletos**, will include invited keynote speeches and parallel sessions, on a variety of topics related to resource sustainability.

icRS 2026 is sponsored by the flagship journal in sustainable resources management *Resources, Conservation & Recycling* (RCR; 2024 Impact Factor: 10.9) and its sister journal *Resources, Conservation & Recycling Advances* (RCRADV; 2024 Impact Factor: 6.4). High quality papers presented at icRS 2026 will be recommended to special issues in these journals as well as other supporting journals.

We are looking forward to meeting you.

Prof. Ming Xu

icRS Conference General Chair



2026 International Conference on Resource Sustainability

(icRS 2026)

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- **Steven Young**, University of Waterloo

icRS 2026 Program

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| Sunday, 14 June 2026 | |
| 16:00-18:00 | Registration (Bai Hotel Cebu Hotel main lobby) |

| Monday, 15 June 2026 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------|--|---|--|---|--|--|------|--------------------------|-----------|------------|----------|-------|--------------------------|-------------------|----------------------|---------------------------|-------------|--|---|--|--|-------------|---|---|--|--|-------------|---|--|---|---|-------------|---|--|--|---|
| 8:30-16:00 | Registration (Bai Hotel Cebu Ballroom lobby) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9:00-9:30 | <p>Opening Ceremony</p> <p>Anthony SF Chiu, Conference Co-Chair, De La Salle University Dennis Kilongkilong, Conference Co-Chair, University of San Jose-Recoletos Ming Xu, General Chair and Distinguished Professor, Tsinghua University Hon. Nestor Archival, Mayor of Cebu City Hon. Atty. John Edward T. Ang, Regional Director, Environmental Management Bureau</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9:30-10:30 | <p>Plenary Session</p> <p>9:30-10:00am Raymond R. Tan, De La Salle University Title: "Resource constraints and enablers of deep decarbonization" 10:00-10:30am Timothée Roux, ExxonMobil Title: "Understanding the potential environmental drivers of plastic packaging usage across its lifecycle"</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Room Lapu-Lapu Grand Ballroom | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10:30-11:00 | Morning Tea and Networking | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parallel Sessions 1.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 12:20-13:30 | Lunch Break | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Parallel Sessions 1.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Room | Lapu-Lapu Grand Ballroom | Humabon 1 | Sulayman 2 | Showroom | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chair | Sobotka, Dominika | Sun, Lu | Kato, Takaaki | McLellan, Benjamin | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13:30-13:50 | <p>Numerical and experimental characterization of 3d-printed hybrid auxetic metamaterials</p> | <p>Urban sprawl, functional centrality, and traffic externalities in Central Africa:</p> | <p>Marine plastic debris and changing perceptions of natural and farmed seafood (ID: 111)</p> | <p>Co-located renewable hydrogen micro-grids for hard-to-abate sectors in China: Integrating demand,</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | |
|-------------|---|--|---|---|
| | in tpu for sustainable applications (ID: 330) | The case of Yaoundé's satellite towns (ID: 139) | | supply and infrastructure (ID: 133) |
| | Mansanadez, Heisei Dweyne (De La Salle University); Ubando, Aristotle | Ghoutum, Anehbom (Sophia University); Longfor, Nkweuseh Reginald; Lebga, Aloysious Kohtem; Puthenkalam, John Joseph; Qian, Xuepeng | Kato, Takaaki (The University of Kitakyushu); Endo, Aiko | Arras, Maximilian (Tsinghua University); Jakerson, Niels; Hu, Josin; Ma, Linwei |
| 13:50-14:10 | Manufacturing of lfp latp composite cathode for solid state battery applications via conventional processing methods (ID: 255) | Optimization of carbon reduction & pollution control in the urban-industrial systems (ID: 166) | Consumer adoption of sustainable aviation fuels: A Theory of Planned Behavior perspective (ID: 135) | Increasing energy system flexibility in China: Evolution of multi-regional power-to-methanol system from 2025 to 2060 (ID: 137) |
| | Nabhan Nasrullah, Mochamad Rafi (Institut Teknologi Bandung); Budiman, Bentang Arief | Sun, Lu (Xi'an Jiaotong University); Wang, Chenyang; Du, Chunle; Li, Zhaoling | Layugan, Guada Altea Erin (De La Salle University); Abiog, James David; Rosales, Mac Joseph; Baquillas, Jonna; Aviso, Kathleen | Hu, Josin (Tsinghua University); Arras, Maximilian; Ma, Linwei |
| 14:10-14:30 | Environmental sustainability assessment of plastic-modified tire-derived aggregates in subsurface asphalt pavement mixtures (ID: 306) | Material Stock Estimation of Single Residential Buildings in the Philippines from 2008 to 2023 (ID: 183) | Waste separation systems in Central Tokyo: Evaluating linguistic and structural barriers faced by foreign residents (ID: 154) | An optimization model of an integrated electric bus fleet (ID: 198) |
| | Gopakumar, Neetu (Indian Institute of Technology Tirupati); Sudan, Namitha; Biligiri, Krishna Prapoorna | Elevado, Kenneth Jae (Nagoya University); Martinico-Perez, Marianne Faith; Hasegawa, Masatoshi; Shirakawa, Hiroaki; Chiu, Anthony Shun Fung; Tanikawa, Hiroki | Maringa, Farai (Sophia University); Akemi, Ori; Longfor, Nkweuseh | Keh, Matthew (De La Salle University); Sy, Charlle |
| 14:30-14:50 | Transforming coconut husk waste into sustainable biochar adsorbents for CO ₂ capture (ID: 317) | Topographic constraints on the spatial patterns and driving mechanisms of urban building material stocks: evidence from the Sichuan-Chongqing Region (ID: 244) | What consumers actually discard: material evidence of resource recovery misalignment in post-consumer textile systems (ID: 319) | Hydrogen energy transitions and critical mineral supply chains in the Indo-Pacific (ID: 182) |
| | Chamnanmor, Ratchanan (Chulalongkorn University); Meng, Leangse; Tocharoen, Siraphop; Nisamaneenate, Jurarat ; Painmanakul, Pisut; Poyai, Thaksina | Liu, Zezhuang (Chongqing University); Sun, Jian; Gao, Xiaofeng; Gu, Yilu | Lam, Magnum Man-lok (The Hong Kong Polytechnic University); Liu, Zeyu; Mai, Shiqi; Li, Icey; Wong, Christina W.Y. | McLellan, Benjamin (Kyoto University) |
| 14:50-15:10 | Dual-sided superhydrophobic paper prepared via gas-phase silylation for breathable, recyclable mono-substrate packaging (ID: 288) | Environmental and urban developmental impacts of building material stocks in central business districts of Metro Manila, Philippines (ID: 157) | Ecosystem service demand relationship and trade-off patterns in urban parks across China (ID: 186) | Electricity-Carbon-Hydrogen Coupling Mechanism and Offset Ratio Optimization under the Inclusion of CCER Green Hydrogen (ID: 215) |
| | Sathapornwajana, Patcharawarin (Chulalongkorn University); Suvarnakich, Kuntinee; Pacaphol, Kamonwan | Urmenita, Francis (Nagoya University); Martinico-Perez, Marianne Faith; Hasegawa, Masatoshi; Shirakawa, Hiroaki; Elevado, Kenneth Jae; Tanikawa, Hiroki | Wu, Shuyao (Hohai University); Li, Delong; Liu, Kai-di; Zhang, Wentao; Li, Binbin V.; Li, Shuangcheng; Liu, Lumeng; Sun, Ximan; Duan, Weili; Zhang, Zhonghao | Hu, Mingyue (China University of Geosciences); Feng, Tiantian |
| 15:10-15:30 | Analytical Hierarchy Process Selection of Lattice Structure and Material for Airless Tires | Identifying nonlinear links between forestry ecosystem services and green productivity using interpretable machine learning and scenario projections: evidence from four urban agglomerations in China (ID: 114) | | Contribution of global realizable wind potential to climate targets (ID: 237) |
| | Judilla, John (De La Salle University), Ubando, Aristotle | Wu, Qiong (Beijing Forestry University); Yu, Chang | | Jia, Tianyu (Beijing Institute of Technology); Lan, Yuqiao; Luo, Yuewen; Xu, Changqing |
| 15:30-16:00 | Afternoon Tea Break and Networking | | | |
| | Parallel Sessions 1.3 | | | |
| | Session 9: Water Resource Management | Session 10: Material Metabolism | Session 11: Sustainable Packaging | Session 12: Circular Economy |
| Room | Lapu-Lapu Grand Ballroom | Humabon 1 | Sulayman 2 | Showroom |
| Chair | Xu, Changqing | Ren, Kaipeng | Zhang, Weiqian | Longfor, Nkweuseh Reginald |

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|-------------|--|--|---|---|
| 16:00-16:20 | Flowing revenue: The role of water resource taxation in China's water stewardship (ID: 187) | Beyond laundry: Dynamic material flow modelling of microplastic fibre emissions from synthetic textile production in China (ID: 236) | A critical review for Life Cycle Assessment of packaging with plastics and alternative materials in the Asia-Pacific region (ID: 126) | Are current circularity indicators fit for bio-based products? A critical test of MCI and ISO 59020 (ID: 103) |
| | Zheng, Yu (Shantou University) | Biswas, Mithun Kumar; Zhou, Haiwei (The University of Melbourne) ; Peng, Liuhua; Li, Wen | Yuan, Jiayi (Tsinghua University) ; Chang, Huimin; Zhang, Weiqian; Nduagu, Experience; Kirti, Richa; Roux, Timothee; Li, Nan; Xu, Ming | Pérez-Hernández, Cristian (Ghent University) ; Nachtergaele, Pieter; Huysveld, Sophie; Dewulf, Jo |
| 16:20-16:40 | Global assessment of energy-carbon footprints in data centers: a systematic analysis based on a high-precision point-source dataset (ID: 249) | Dynamic material flow analysis of end-of-life engineered wood in Australia (ID: 230) | Closing the data gap: Enhancing Life Cycle Assessments for packaging (ID: 164) | Resource sustainability assessment of waste-derived warm-mix additives for asphalt-rubber pavements (ID: 307) |
| | Lan, Yuqiao (Beijing Institute of Technology) ; Xu, Changqing; Jia, Tianyu; Luo, Yuewen | Wang, Jiabao (The University of Melbourne) ; Biswas, Mithun; Li, Wen; Belleville, Benoit | Zhang, Jennifer (ExxonMobil) ; Nduagu, Experience; Richa, Kirti; Avery, Elizabeth; Auras, Rafael; Roux, Timothee; Antoniazzi, Nathália; Hafner-Kuhn, Tasja; Wack, Katja; Gstöhl, Andrin; Tacker, Manfred | Mattaparthi, Sri Gangadhar (Indian Institute of Technology Tirupati) ; Sudan, Namitha; Biligiri, Krishna Prapoorna |
| 16:40-17:00 | Coupling time-series analysis and agent-based modeling to design staged non-price demand side management policies for durable water saving (ID: 217) | Unlocking biomass energy potential: a national-scale material flow analysis of Malaysia's palm oil waste (ID: 254) | Toward a governance framework for sustainable packaging systems in Japan: institutions, coordination, and participation in the circular economy transition (ID: 326) | Decoupled resource circularity: a framework for analyzing SDG strategic integration in East Asian manufacturing (ID: 229) |
| | Hu, Yacong (Tsinghua University) ; Tian, Jinping; Chen, Lyujun | Leong, Zheng Hao (Tsinghua University) ; Wen, Zongguo | Ori, Akemi (Sophia University) | Do, Hyewon (Yonsei University) |
| 17:00-17:20 | Understanding rural-driven water scarcity in China: spatiotemporal dynamics and drivers to sustainable water management (ID: 130) | Tripling of metal requirements in China's electric grid over the past two decades (ID: 250) | Applying the plastic transition meta-framework to study system dynamics and impacts of bioplastic materials in designed closed-loop drinking cup systems (ID: 240) | Streamlining criticality assessment: introducing QuintESSENZ for product-level evaluation (ID: 163) |
| | Yang, Yaqi (Southwest University) ; Chen, Xi; Shuai, Chenyang | Ren, Kaipeng (China University of Petroleum) ; Wang, Weichen; Tang, Xu; Willerström, Jakob; Höök, Mikael | Van Lith, Yme (Wageningen University) ; Brouwer, Marieke; Thoden van Velzen, Ulphard; Van Leeuwen, Judith; Chen, Wei-Shan; Strik, David | Richter, Nikolai Darius (Technical University Berlin) ; Bach, Vanessa; Yavor, Kim Maya; Marinova, Sylvia; Finkbeiner, Matthias |
| 17:20-17:40 | The comprehensive benefits and distributional inequality of reclaimed water in China (ID: 333) | A global stage model of anthropogenic material stocks and economic capital co-evolution from germination to decoupling (ID: 252) | | Assessing progress towards a circular economy in sub-Saharan Africa: A comparative evaluation of municipal waste management systems in Cameroon and Ghana (ID: 141) |
| | Xu, Changqing (Beijing Institute of Technology) ; Jia, Tianyu; Lin, Wei; Lan, Yuqiao | Sun, Jian (Chongqing University) ; Liu, Zezhuang; Gao, Xiaofeng; Gu, Yilu | | Longfor, Nkweuseh Reginald (Sophia University) ; Tomai, Maria; Campitelli, Alessio; Qian, Xuepeng |

| Tuesday, 16 June 2026 | | | | |
|-------------------------------|--|---|--|---|
| Registration (Bai Hotel Cebu) | | | | |
| 9:00-10:30 | Plenary Session | 9-9:30am Fengqi You , Cornell University Title: "AI for Sustainability: A Multi-Scale Systems Approach" 9:30-10am Stefan Minner , Technical University of Munich Title: "Circular Intelligence – Business models, data-driven optimization, and coordination" 10-10:30am Sangwon Suh , Tsinghua University Title: "Promises and challenges of improving resource circularity through AI" | | |
| | Room | Lapu-Lapu Ballroom 2 | | |
| 10:30-11:00 | Morning Tea and Networking | | | |
| Parallel Sessions 2.1 | | | | |
| | Session 13: Sustainable Supply Chain | Session 14: Waste Management | Session 15: Sustainable Agriculture | Session 16: Clean Energy Transitions |
| Room | Humabon 1 | Sulayman 2 | Zula 1 | Zula 2 |
| Chair | Negash, Yeneneh Tamirat | Yuan, Qiuyan | Kim, Solhee | Yu, Chang |
| 11:00-11:20 | Scalable validation of intelligent decision-making systems for energy transition minerals supply chains (ID: 205) | Recycling lock-in in electronic waste management systems (ID: 293) | Life Cycle mechanistic perspectives on carbon mitigation in low-carbon agriculture (ID: 169) | From EV battery digital product passport data to EU circularity KPIs: a system dynamics assessment of lithium life cycles (ID: 167) |
| | Arief, Mansur (King Fahd University of Petroleum and Minerals) | Portugaise, Mika (University of Oxford) | Kim, Solhee (Jeonbuk National University); Jeon, Jeongbae; Kim, Taegon | Zhang, Yuqiong (Aalborg University); Cheng, Yang |
| 11:20-11:40 | Systems optimization of Hub-and-Spoke biomass-to-SAF for intra-island supply chains (ID: 150) | A bi-objective decision model for WEEE circular plant operation: a disassembly bill of materials approach (ID: 203) | Strategies for enhancing social benefits in agricultural waste management: a game theory approach to government subsidy policies (ID: 328) | Pervasive dependency on energy transition minerals (ID: 122) |
| | Abiog, James David (De La Salle University); Layugan, Guada Altea Erin; Rosales, Mac Joseph; Tapia, John Frederick; Mayol, Andres Philip; Juan, Jayne Lois San; Aviso, Kathleen | NI, Zhiqin (Xi'an Jiaotong-Liverpool University) | Li, Li Gong (Taiyuan University of Technology) | Gossmann, Simon (University of New South Wales); Wiedmann, Thomas; Thurbon, Elizabeth; Tallis, Benjamin |
| 11:40-12:00 | Feasibility-first process network synthesis for circular cotton textile waste recovery using P-graph (ID: 239) | Rare Earth recycling potential for China's civilian unmanned aerial vehicles in shared socioeconomic pathways (ID: 227) | Carbon, water and land benefits of valorizing food loss and by-products into single-cell protein in China (ID: 224) | Future demand and potential risks of lithium for approaching China's carbon neutrality target (ID: 106) |
| | Masilungan-Manuel, Joanna Tess (De La Salle University); Tapia, John Frederick; Tan, Raymond | Zhang, Bin (Beijing Institute of Technology); Shi, Wenqi; Wang, Zhaohua; Xu, Changqing | Wei, Yujun (Wageningen University); Rodríguez Sánchez, María; Li, Xuexian; Rijnaarts, Huub; Chen, Weishan | Wu, Jian-yu (Beijing Institute of Technology); Yu, Biying; Wei, Yi-Ming. |
| 12:00-12:20 | Decarbonizing construction through circular supply chain 4.0: An interdependent practice system (ID: 145) | Who should be responsible for e-waste management? A qualitative study of the perceptions of Indian consumers (ID: 160) | Assessing agricultural water resource resilience under climate change using life cycle assessment: a case study of the Shihmen Reservoir in Taiwan (ID: 322) | Resource-efficient port-scale pathways for hydrogen-based maritime fuels in China (ID: 140) |
| | Negash, Yeneneh Tamirat (Asia University) | Turaga, Rama Mohana (Indian Institute of Management Ahmedabad); Nair, Sumitra | Chiang, Cian-Wei (National Taiwan University); Fan, Yen-Tzu; Chiueh, Pei-Te | Jakerson, Niels (Tsinghua University); Arras, Maximilian; Ma, Linwei |
| 12:20-12:40 | | Artificial Intelligence based solid waste management solutions for enhanced resource recovery (ID: 213) | Managing organic input uptake in China's grain systems: stage-specific associations and regional heterogeneity (ID: 276) | |
| | | Tan, Yu Won, Zoungrana, Ali, Amponsah, Oscar, Yuan, Qiuyan (University of Manitoba, Canada) | Lu, Yuan (China Agricultural University); Li, Yueshuai; Wu, Hao; Zhang, Weifeng; Li, Yangyang | |
| 12:45–13:45 | Lunch Break | | | |
| Parallel Sessions 2.2 | | | | |
| | Session 17: Carbon Capture, Usage and Storage (CCUS) | Session 18: Artificial Intelligence and Data-driven Tools | Session 19: Ecological Resilience | Session 20: Advanced Waste Treatment |
| Room | Humabon 1 | Sulayman 2 | Zula 1 | Zula 2 |
| Chair | Tapia, John Frederick | Zhang, Bin | Martinico-Perez, Marianne faith | Turaga, Rama Mohana |

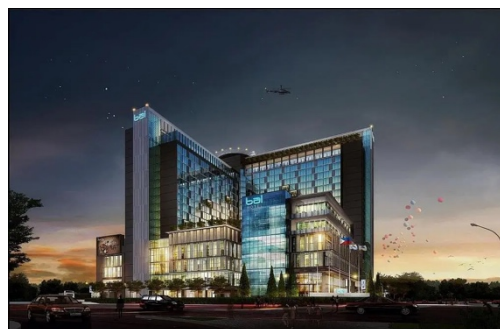
| | | | | |
|-------------|---|---|--|---|
| 13:45-14:05 | Net carbon dioxide removal potential of cement kiln dust enhanced weathering in Malaysia's oil palm plantations (ID: 290) | WuYu-E: A domain-specific text embedding model for solid waste management (ID: 261) | Evidence-based land use planning for climate change: A multi-hazard risk assessment approach (ID: 123) | The potential of drilling wastes utilization through thermochemical process and kinetics study: mud, cuttings, and spent lubricant oil from oil and gas industry (ID: 283) |
| | Aviso, Kathleen (De La Salle University) ; Foo, Dominic; Gue, Ivan; Migo-Sumagang, Maria Victoria; Ng, Denny; Tan, Raymond; Tan, Yin Ling | Pan, Zhixing (Tsinghua University) ; Wen, Zongguo | Ho, Chih Chao (Feng Chia University) ; Liao, Jian-Cheng; Hsu, Chung-Huai; Hsu, Yung-Ching | Worakitchareonpol, Patranit (Chulalongkorn University) ; Nisamaneenate, Jurarat; Wongwailikhit, Kritchart; Tocharoen, Siraphop; Atong, Duangduen; Sricharoenchaikul, Viboon |
| 14:05-14:25 | Optimal value chains of bioenergy with carbon capture and storage (BECCS) systems (ID: 272) | Repurpose or recycle? a blockchain architecture for trustworthy artificial intelligence-enabled battery end-of-life routing in sustainable supply chain (ID: 208) | Differential population and land-use dynamics across flood frequency zones in Lao PDR (ID: 168) | Fluorine recovery from low-concentration fluorine wastewater by flow-electrode capacitive deionization and fluid bed crystallization (FCDI-FBC): preconcentration and high-quality fluorite pellets formation (ID: 253) |
| | Tapia, John Frederick (De La Salle University) ; Ferrer, Amatha Viola; Migo-Sumagang, Maria Victoria; Doliente, Stephen | Liu, Xinlai (Cornell University) ; Sy, Charlle; Liu, Size; Hanumanthareddy, Sanjanapatel; Gao, H. Oliver | Soulivong, Khamphone (Nagoya University) ; Shirakawa, Hiroaki; Martinico-Perez, Marianne faith; Hasegawa, Mastoshi; Tanikawa, Hiroki. | Yang, Jing (Tongji University) ; Gong, Hui |
| 14:25-14:45 | The decline in CCS costs facilitated low-carbon energy transition in China (ID: 271) | Multi-task learning for multivariate load forecasting in integrated energy systems considering deep correlation features (ID: 329) | Extreme climate shocks, local fiscal adjustment, and the choice of buffer mechanisms (ID: 331) | An innovative Back-to-Furnace treatment strategy for MSWI fly ash: dynamic modeling of pollutant fate and process performance (ID: 284) |
| | Li, Zezheng (Peking University) ; Yu, Liu; Zhang, Zhengxian | Zhao, Wenting (Taiyuan University of Technology) | Guo, Qingbin (Hainan University) ; Mo, Zhiyao; Liu, Jing | Liang, Jianing (Tsinghua University) ; Yue, Dongbei; Li, Hongxin; Liang, Songrun; Cai, Danlei |
| 14:45-15:05 | Geometry-based CO ₂ absorption estimation for urban buildings using high-density airborne laser scanning (ID: 231) | Leveraging large language model for anaerobic digestion process prediction: a two-stage fine-tuning strategy with literature and plant-specific data (ID: 251) | From persistence to adaptation: evaluating ecological resilience and zoning strategies in a high-density coastal megaregion (ID: 323) | A circular economy route to hydrogen via microwave reforming of spent transformer oil over sewage sludge-derived Ni-Co catalysts (ID: 302) |
| | Shirakawa, Hiroaki (Nagoya University) ; Nakamura, Yuto; Sugiura, Toshiya; Nagao, Masahiro; Tanikawa, Hiroki | Zhang, Yi (Tsinghua University) ; Wen, Zongguo | Zhang, Xing (Beijing Normal University) ; Xu, Linyu; Hao, Jiakang | Tocharoen, Siraphop (Chulalongkorn University) ; Nisamaneenate, Jurarat; Worakitchareonpol, Patranit; Atong, Duangduen; Sricharoenchaikul, Viboon |
| 15:05-15:25 | | | Spatiotemporal evolution and driving mechanisms of urban ecological resources in China's typical regions under sustainable energy transition (ID: 259) | |
| | | | Wu, Peize (Beijing University of Technology) ; Chen, Sha | |
| 15:25-16:00 | Afternoon Tea Break and Networking | | | |
| 16:15 | Assemble at the Lobby, Shuttle Bus Transfer to BE Mactan Resort for Conference Dinner [30-45 min travelling time] Address: Punta Engano Road, Mactan Island Lapu Lapu City, Cebu (beside Mactan Shangrila and Movenpick Hotels) (Please do not miss the shuttle bus, others who opt to travel directly may use Grab) | | | |
| 17:30 | Beachfront Conference Dinner | | | |
| 19:45-20:00 | Shuttle Bus Transfer back to Bai Hotel | | | |

| Wednesday, 17 June 2026 | | | | |
|-------------------------|--|---|--|--|
| Parallel Sessions 3.1 | | | | |
| | Session 21: Environmental Policy and Regulation | Session 22: Carbon Emission and Carbon Neutrality | Session 23: Life Cycle Assessment (LCA) | Session 24: Advanced Waste Utilization |
| Room | Humabon 1 | Sulayman 2 | Zula 1 | Zula 2 |
| Chair | Wong, Christina | Tao, Chenlu | Ocampo, Lanndon | Budiman, Bentang Arief |
| 9:00-9:20 | Global spillover effects of mitigation policies: implications on China's carbon neutrality (ID: 258) | Pathways to forestry carbon sink value realization: Evidence from Guangxi plantations, China (ID: 223) | Development of a real-time structural performance-based framework for use-phase environmental assessment of asphalt pavement system (ID: 308) | Multi-metal-controlled pyrolysis degradation pathways of waste printed circuit boards for resources-efficient thermochemical recycling (ID: 232) |
| | Li, Xinbei (Peking University); Liu, Yu; Zhao, Xinran | Diao, Muqi (China Agricultural University); Liu, Yu | Sudan, Namitha (Indian Institute of Technology Tirupati); Biligiri, Krishna Prapoorna | Moses, Kingsley (University of Nottingham Ningbo China); Etim, Ubong; Ifthikar, Jerosha; Debiagi, Paulo |
| 9:20-9:40 | Evaluating global methane mitigation policies: A multi-source break-point analysis (ID: 116) | Interprovincial timber carbon stock flows in China: spatial reconfiguration and forest carbon sink pressure assessment toward carbon neutrality (ID: 113) | Polyolefin waste-derived phase change materials (PCM): thermophysical properties and LCA for energy conservation in buildings (ID: 206) | Pyrolysis and desulfurization of waste tires for recarbonization in steelmaking (ID: 243) |
| | Xu, Yating (Hong Kong Baptist University); Guo, Meiyu | Yu, Chang (Beijing Forestry University); Wu, Qiong | Shefy, Amir (Israel Institute of Technology); Spatari, Sabrina | Myeoung, Jaeuk (Chosun university); KIM, Sun-Joong |
| 9:40-10:00 | Carbon finance policy effects and corporate low-carbon transitions: Behavioral evidence (ID: 286) | The double-edged effects of China Certified Emission Reduction (CCER): promoting overall innovation while crowding out green transformation (ID: 136) | Cradle-to-gate carbon emissions of battery-grade nickel and cobalt cathode materials (ID: 270) | Shredder blade design for lithium-ion battery recycling: optimizing thickness via validated finite element simulations (ID: 260) |
| | Zhang, Lanya (Beijing Normal University); Xu, Linyu | Tao, Chenlu (North China Electric Power University); Yu, Chang | Wei, Yanhao (Tsinghua University); Liu, Min; Wang, Fang; Pan, Xuexing; Lin, Guangliang; He, Xin; Gomez, Daniel De Castro; Perez, Omar Hurtado; Wu, Ye; Zhang, Shaojun | Faza, Hafizh Muhammad (Institut Teknologi Bandung); Budiman, Bentang Arief; Ichlas, Zela Tanlega; Alorro, Richard Diaz |
| 10:00-10:20 | | Designing Viable SAF Systems for the Philippines: A Techno-Economic Analysis of FT-SPK, HEFA-SPK, and CH-SK Pathways (ID: 332) | Attributional lifecycle assessment of asphalt pavements reinforced with composite glass fiber grids as crack-relief layers (ID: 309) | Apparent coating-foil adhesion strength of spent LFP and NCM cathodes for lithium-ion battery recycling (ID: 361) |
| | | Rosales, Mac (De La Salle University); Abiog, James David; Layugan, Guada Altea Erin; Aviso, Kathleen | Pandurangi, Hrushikesh (Indian Institute of Technology Tirupati); Sudan, Namitha; Gopakumar, Neetu; B S, Abhijith; Biligiri, Krishna Prapoorna | Budiman, Bentang Arief (Institut Teknologi Bandung); Reflin, Rhainna Rheizkhira; Alorro, Richard Diaz |
| 10:30-11:00 | Awarding and Closing Ceremony | | | |
| | Room | Lapu-Lapu Ballroom 2 | | |
| 11:00-13:00 | Lunch | | | |

Venue

Bai Hotel Cebu

icRS 2026 will be held at Bai Hotel Cebu, a contemporary 4-star hotel strategically located in Mandaue City, at the heart of the Cebu–Mactan metropolitan area. Situated just a short drive from Mactan-Cebu International Airport and conveniently positioned between Cebu City and Lapu-Lapu City, the hotel offers easy access to the region's key business and tourism hubs.



Bai Hotel Cebu is not only a premier destination for business and leisure travelers but also a vibrant cultural and culinary hub. Guests can enjoy spectacular harbour and city views from the hotel's ultra-modern facilities, which include 668 spacious guestrooms, eight distinctive dining venues, and a rooftop pool. The hotel also features 13 versatile function rooms, ideal for meetings, conferences, and special events, all designed with contemporary aesthetics that evoke openness and modern luxury. As a proud member of Worldhotels, Bai Hotel Cebu delivers international standards of service while embracing its identity as Your Host in the South. Whether you're exploring the nearby cultural attractions or focusing on conference activities, the hotel provides a secure, comfortable, and inspiring environment for all attendees.

Detailed Venue information: **Bai Hotel**

Ouano Ave. corner C.D. Seno St., City South Special Economic Administrative Zone, Mandaue City, Cebu, Philippines

Phone: +63 32 342 8888 | +63 32 888 2588 | +63 939 983 3632 | +63 947 894 8895 | +63 32 888 2500

Email: info@baihotel.com.ph Website: <https://www.baihotels.com/>

We kindly advise all participants to obtain the official confirmation letter for your booking. Please ensure that you have this document available to facilitate a smooth and efficient check-in.

About Cebu

Cebu city, often called the “Queen City of the South,” is the bustling urban heart of the Visayas region in the Philippines. A dynamic blend of the old and the new, Cebu City is famous for its historical sites, vibrant festivals, and energetic atmosphere. Discover centuries-old landmarks such as Magellan's Cross and the Basilica Minore del Santo Niño, stroll down Colon Street—the country's oldest street—or explore lively shopping districts and modern business hubs. Food lovers will delight in Cebu's local specialties like lechon (roast pig) and dried mangoes. As a thriving metropolis, Cebu City offers a colorful mix of Filipino tradition and modern cosmopolitan living.

Places to Visit nearby or in the Metropolis Cebu City

There is a shopping and dining arcade in front of the Bai Hotel. For big scale shopping malls, please visit SM Seaside City Cebu, Ayala Malls, and others.

- [SM Seaside City Cebu](https://smsupermalls.com/mall-directory/sm-seaside-city-cebu/information) (smsupermalls.com/mall-directory/sm-seaside-city-cebu/information)
- [Magellan's Cross](#)
- [Basilica Minore del Santo Niño](#)
- [Fort San Pedro](#)
- [Cebu Taoist Temple](#)
- [Museo Sugbo](#)
- [Temple of Leah](#)

World-class tourist spots outside the city (some are 3-6 hour by land)

- [Oslob Whale Shark Watching](#)
- [The Moalboal Sardine Run](#)
- Beaches in Mactan Island (45 min from Bai Hotel)
- Bird watching / Snorkel (one can get an island hopping boat to do bird watching and snorkeling)

Pre-Departure Note

1. Transportation from Airport

As transportation within Philippine major cities Manila and Cebu are convenient and swift, participants are kindly requested to make use of the following recommended modes.

Cebu Mactan International Airport should be your main gateway to Metropolitan Cebu region, it is about 1,100 sq.km. in land area and has about 4 million population.

Information on available transportation:

For ground transportation from Cebu Mactan International Airport, several convenient options are available:

- **Grab Car (Uber version in ASEAN)** [this is the safest and best option]



- Delegates should download the very helpful and easy App before your journey. Grab is the most popular and safest mode of travel in the ASEAN region. The price is fixed and you can also make destination changes even after riding. The standard car fare to Bai Hotel should be around PHP 250 – 420 (USD 4 –7).

- Apps should be similar or identical this logo, and there is a Grab queue area in the airport. One may also approach the Grab queue area counter for booking a car.

- **Taxi**

- Taxis are available for hire at the taxi stands located in the Arrival areas. Please make sure you are using the taxi in the queue area, and not those individual drivers who approaches you with an offer.

- The journey to the city typically takes about 30 minutes (9 kilometers) and costs between PHP 200-400 (USD 3.50 – USD 6.50), depending on the traffic flow. All fares are metered.

- **Hotel Pick-up**

- The Bai Hotel certainly provides airport transfer service at a price. Please communicate directly with the hotel if you wish that service.

2. Weather and clothing

Cebu in June 2026 will be the definition of "tropical transition." You'll be catching the tail end of the peak heat (dry season) while the **southwest monsoon** (rainy showers) MAY begin to settle in. Check again online for much more accurate weather forecast before your journey.

Expect a mix of brilliant, sunny mornings followed by sudden, intense afternoon rain showers. Here is the breakdown of what to expect and how to pack.

The Weather Forecast

- **Temperature:** Highs around **32°C (90°F)** and lows near **25°C (77°F)**.
- **Humidity:** Very high (often 75%+). It will feel "sticky," and the perceived temperature (heat index) will often exceed **36°C**.

- **Rainfall:** June marks the start of the rainy season, although related to Climate Change rainfalls do arrive in July or even August in the past years. You can expect about **10 days** with some rainfall. These are usually quick tropical downpours rather than all-day drizzles.
- **Sea Temperature:** A perfect **30°C**, making it ideal for swimming or island hopping

What to Pack outside the conference

The goal is **breathability** and **waterproofing**.

Clothing

- **Fabrics:** Stick to linen, cotton, or "dri-fit" moisture-wicking materials. Avoid heavy denim or thick synthetics, as they won't dry in the humidity.
- **The "Two-Outfit" Rule:** Because of the sweat and sudden rain, you'll likely want to change clothes at least once during the day.
- **The Indoor Layer:** While it's hot outside, Philippine malls, buses, and cinemas are famous for "arctic" air conditioning. Bring a **light hoodie, denim jacket, or pashmina** for transit.
- **Swimwear:** Hotels often have full pool amenity, while Mactan airport is few kilometers away from the beautiful beaches and sea for scuba diving (whale shark experience and sardine colony)

Footwear

- **Rubber Sandals/Flip-flops:** Essential for the beach and casual walks.
- **Water Shoes:** Non-negotiable if you plan on visiting **Kawasan Falls** or doing any canyoneering, as the rocks are slippery.
- **Breathable Sneakers:** If you're hiking, choose mesh sneakers that dry quickly.

Essential Gear

- **Dry Bag (10L-20L):** A lifesaver for island hopping or if you get caught in a downpour while walking. It keeps your phone and camera bone-dry.
- **Rain Protection:** A **sturdy compact umbrella** is often better than a raincoat, as raincoats can feel like a portable sauna in the 32°C heat.
- **Sun Protection:** Even on cloudy days, the UV index in Cebu is extreme. Bring reef-safe sunscreen and a wide-brimmed hat.
- **Insect Repellent:** Mosquitoes are more active during the transition to the rainy season.

3. Important Pre-Arrival Instructions: Philippines (PH) Arrival Card

All foreign visitors must ensure that they meet or possess entry requirements as stated by the Philippine Immigration authority. Visit <https://etravel.gov.ph/> when you check-in your flight.

4. Electricity

The power supply in the Philippines is 220-240 volts at 60 Hz, with A-type electric plugs.

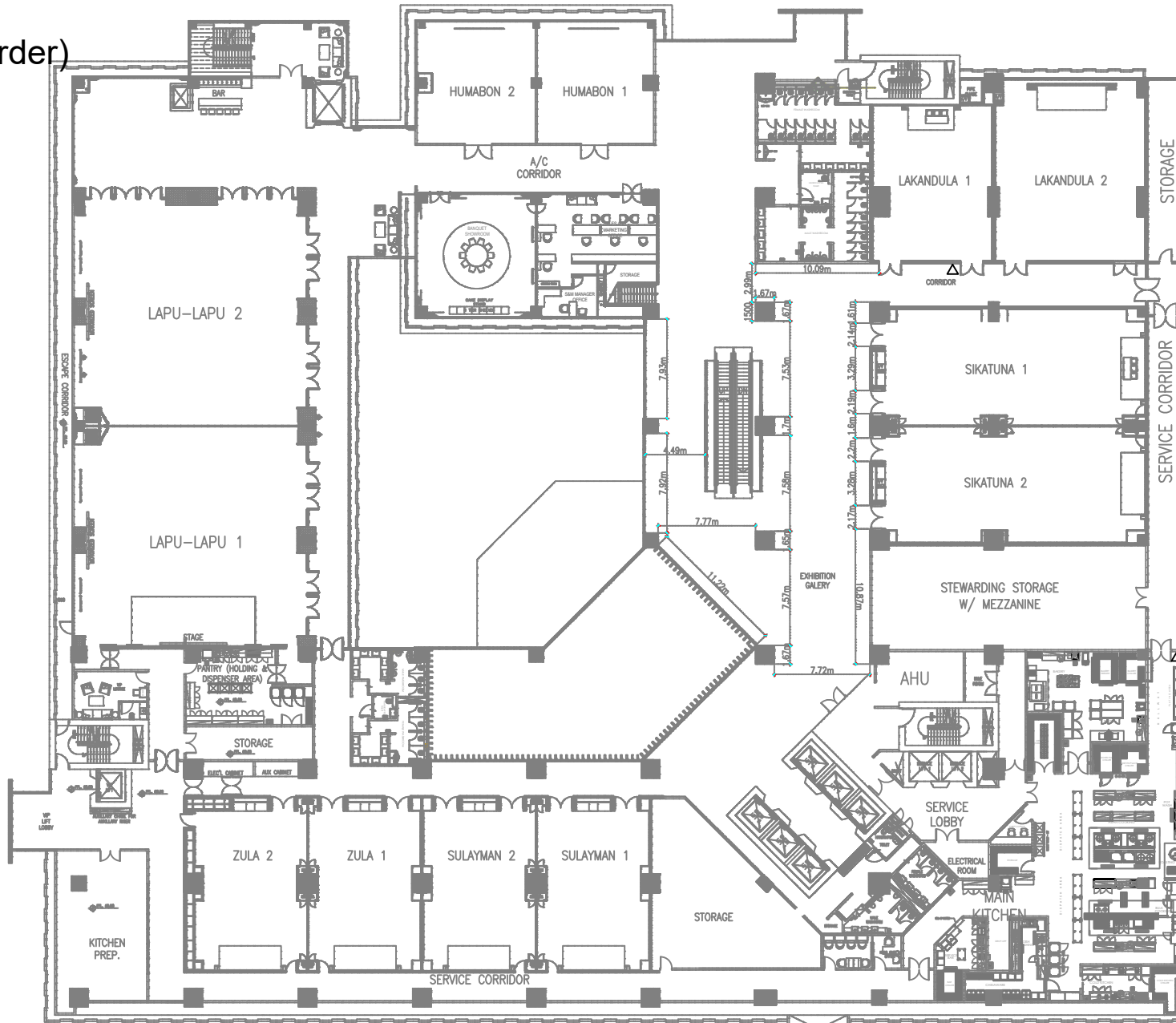
5. Currency, Credit Cards, and Debit Cards

Exchange Rates 1 USD = 60 Pesos (as of May 2026), check with oanda or xe.com before the trip. The official Philippine currency is the Peso. Most credit cards are accepted at major hotels, certain stores and certain restaurants. You can easily withdraw cash using your international debit cards at ATM located at most major shopping arcade / mall nearby.

icRS venues in box

(in clockwise order)

- Sulayman 2
- Zula 1 & 2
- Lapu-Lapu
- Showroom
- Humabon



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