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Urban Resilience and Adaptation for India and Mongolia: curricula, capacity, ICT and stakeholder collaboration to support green & blue infrastructure and nature-based solutions 619050-EPP-1-2020-1-DE-EPPKA2-CBHE-JP

International Doctoral Research Seminar

A Study of Ecosystem Services and Disservices in Urban Parks in Ulaanbaatar City, Mongolia

Date : 06 February 2024, Tuesday
Time : 02:30 – 03:30 pm IST

Abstract

This research in Ulaanbaatar investigates both urban ecosystem services and disservices, addressing a significant gap in related studies in Mongolia. Using a mixed-methods approach focusing on urban parks such as National Garden Park and Misheel Garden, the study aims to guide urban green and blue infrastructure design for community needs. While the survey is pending, anticipated outcomes include insights into ecosystem values, residents' attitudes, heightened public awareness, and policy recommendations for sustainable urban development. This research is expected to contribute essential knowledge to the field of urban ecology in Ulaanbaatar.



Speaker

Mrs Enkhbat Oyuntselmeg

Doctoral Student

Division of Sustainable Energy and Environmental Engineering, Graduate School of Engineering, Osaka University, Japan

Specializing in Environmental Engineering she is carrying out research at the Green Engineering for Global Environment Laboratory, Osaka University, and the Environmental Engineering Laboratory, National University of Mongolia (NUM). She is currently a recipient of the MJEED scholarship during her doctoral studies. She obtained her MSc in Environmental Sciences from the University of Tsukuba through the JDS scholarship and another MSc in Ecology and Conservation Biology from the NUM.

Supervisor:

Associate Prof. Takashi Machimura, Osaka University
Prof. Ochir Altansukh, National University of Mongolia

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Facilitating Institution

National University of Mongoliar

Speaker: Mrs Enkhbat Oyuntselmeg, Osaka University, Japan

Topic: A Study of Ecosystem Services and Disservices in Urban Parks in Ulaanbaatar City, Mongolia

Mrs Enkhbat Oyuntselmeg discusses that the Urban parks play a crucial role in the ecological and social fabric of cities, offering a range of ecosystem services that benefit the environment and the well-being of residents. However, they can also present certain disservices that may detract from their overall value. This study investigates both the ecosystem services and disservices of urban parks in Ulaanbaatar, Mongolia, addressing a significant gap in related research within the country. By focusing on prominent parks such as the National Garden Park and Misheel Garden, this research aims to inform the design and management of urban green and blue infrastructure to better meet community needs.

The primary objective of this study is to understand the dual role of urban parks in providing ecosystem services and disservices in Ulaanbaatar. To achieve this, a mixed-methods approach is employed, combining qualitative and quantitative research methods. Key components of the research include: (1) Ecosystem Services Assessment - Evaluating the positive contributions of urban parks, such as air quality improvement, temperature regulation, recreational opportunities, and aesthetic value. (2) Ecosystem Disservices Analysis - Identifying negative aspects, including maintenance challenges, pest prevalence, and potential safety concerns. (3) Community Engagement - Conducting surveys and interviews with park visitors and local residents to gather insights into their perceptions and experiences related to urban parks. While the survey component of the study is still pending, preliminary observations and literature reviews have set a solid foundation for the anticipated outcomes.

The research is expected to yield several key insights and outcomes on Ecosystem Values, Residents' Attitudes, Public Awareness, and Policy Recommendations. This research is poised to make a significant contribution to the field of urban ecology in Ulaanbaatar. By addressing the gap in existing studies on urban ecosystem services and disservices in Mongolia, it provides valuable data and insights that can inform future urban planning and policy decisions. The focus on community engagement ensures that the findings are grounded in the lived experiences of local residents, making the recommendations more relevant and actionable.

The findings from this study will be instrumental in guiding the development and management of urban green and blue infrastructure in Ulaanbaatar. Key implications include - Design Considerations, Maintenance Strategies, and Policy Development. The study of ecosystem services and disservices in urban parks in Ulaanbaatar is a crucial step towards sustainable urban development in Mongolia. By providing a detailed analysis of both the benefits and challenges associated with urban parks, this research offers a holistic perspective that can guide future efforts in urban planning and environmental management. The anticipated outcomes will not only enhance the understanding of urban ecology in Ulaanbaatar but also contribute to the global discourse on sustainable cities and the vital role of urban green and blue infrastructure.

More questions pertaining to Mrs Enkhbat Oyuntselmeg's research work can be corresponded through her email- oyunerdene439@gmail.com

Tselgee E (Presenting)

Thank you for your time and listening!

3:45 PM | IDRS - Mrs Enkhbat Oyuntselmegeg Osaka Unive...

Participants: Tselgee E, Ashish Suman, varun singh, S. Jaya kumar, Deepa Chettri, MRITIKA DAS, Aditi Mohan, Divyata Yadav, Prof. PK Joshi

Tselgee E (Presenting)

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Supervisor:
Associate prof. Takashi Machimura,
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Professor Ochir Altansukh,
National University of Mongolia

By:
Enkhbat Oyuntselmegeg
Doctoral student
Osaka University

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