

## Chair                      Forest Environment Conservation

### 2.2.5                      Laboratory : Landscape Architecture

Member:	Professor	Morimoto, Yukihiro, Dr. Agri. Sci.
	Associate Professor	Fukamachi, Katsue, Dr. Agri. Sci.
	Assistant Professor	Imanishi, Junichi, Dr. Agri. Sci.
	Doctor's program	7
	Master's Program	7
	Undergraduate	4

#### **A. Research Activities (2010.4-2011.3)**

##### **A-1. Main Subjects**

###### a) Theory and history of landscape design

History and theory of modern landscape design have been researched continuously. The purpose of the studies is to clarify the social significance of public open spaces through the researches on economic and political backgrounds.

###### b) Habitat restoration and conservation research

Technological studies on conservation of forest and wildlife habitat have been researched through works in urban forest.

###### c) Landscape and land-use planning research

Landscape and land-use preference studies on open space in urban and urban fringe areas are conducted in order to get landscape and land-use planning theory.

d) Practice in landscape design

This laboratory has participated in the practical processes of several projects such as parks and urban planning.

## **A-2.Publications and presentations**

a) Publications

### Books

- Japan Satoyama Satoumi Assessment (JSSA) – Western Japan Cluster (Morimoto Y., Fukamachi K., Imanishi J. and others) 、 『Satoyama and Satoumi: Socio-ecological Production Landscapes in Japan – Experiences and Lessons from Western Japan Cluster –』、 Tokyo: UNU-IAS、 2010、 97pp.

- Takemura S, Kamada M, Morimoto Y, ‘Identification of Topographical and Climatic Factors Determining Suitability of Mangrove Habitat in India as a Basis for Restoration Planning’, In Eds. Shaw R and Krishnamurthy RR Communities and Coastal Zone Management, Research Publishing Services, 2011, 61-74

### Original Papers(including book-reviews)

- Song, Y.K., Imanishi, J., Hashimoto, H., Morimura, A. and Morimoto, Y. 'Importance of the green spectral region for remote assessment of tree vigor condition: a case study of *Cerasus* species'. *Journal of Environmental Information Science* 39(5), 87-96. 2011.3

- Sugita, S., Imanishi, J., Fukamachi, K., Morimoto, Y. and Amasaki, H. 'Study on the construction process and the spatial characteristic of the Seifuso-garden by OGAWA Jihei VII', *Landscape Research Japan* 74(5), 369-374, 2011.3

- Imanishi, J., Imanishi, A. and Sugita, S. 'Reexamination of the exact timing of the aerial photographs of Kyoto City, Japan taken in the beginning of the Showa Period', *Landscape Research Japan* 74(5), 419-424, 2011.3

- Imanishi, A., Sugita, S., Imanishi, J. and Morimoto, Y. 'The vegetative landscape of Kamo-wake-ikazuchi Shrine and resource utilization found in historical documents of forest management from the 17th to 18th century', *Landscape Research Japan* 74(5), 463-468, 2011.3

- Kato, I., Imanishi, J., Fukamachi, K. and Morimoto, Y. 'Study on the attitudes of people who consider purchase of a house towards having a private garden and its greenery', *Landscape Research Japan* 74(5), 551-556, 2011.3

- Sasaki, T., Imanishi, J., Ioki, K., Morimoto, Y. and Kitada, K. 'Object-based classification of land cover and tree species by integrating airborne LiDAR and high spatial resolution imagery data'. *Landscape and Ecological Engineering*, Online First. 2011.3

- Baba, T., Imanishi, J., Imanishi, A., Watanabe, E., Ohgitani, E., Imanishi, J. and Morimoto, Y. 'Urban woodland for stress reduction: An experimental study on effects of walking, environment and experiences of woodland play.' *Journal of Landscape Architecture in Asia* 5, 249-254. 2010.10

- Morimoto Y, 'Biodiversity and ecosystem services in urban areas for smart adaptation to climate change: "Do you Kyoto"?'', *Landscape and Ecological Engineering*", Vol 7, No 1, 9-16, Tokyo, 2010

## Reports,others

- Imanishi, J., 'Intimate Nature Gives Us Healthy Life - Biodiversity and Integrated Medicine', BIO-City 47, 92-99, 2011.3

- Imanishi, J., 'Potential Application of Remote Sensing for Evaluation of Biodiversity in Cities', Journal of the Japanese Society of Revegetation Technology 36(3), 385-386, 2010.12

### b) Conference and seminar papers presented

- The 23rd World Congress of the International Union of Forest Research Organizations (IUFRO): 2
- The 2nd International Conference of Urban Biodiversity and Design (URBIO2010): 8 presentations
- The 58th Annual Meeting of Ecological Society of Japan: 1 presentation
- The 23rd Annual Meeting of Society for Risk Analysis Japan: 1 presentation
- The 20th Annual Meeting of Japan Association for Landscape Ecology: 2 presentations

## **A-3.Off-campus activities 2**

### Research grants

#### 1. Grants-in-aid for Scientific Research(KAKENHI)

- Scientific Research (A) : Morimoto, Yukihiro : Development of the City Biodiversity Index

- Grant-in-Aid for Young Scientists (B) : Imanishi, Junichi : Developing Assessment Method of Tree Health Based on Delayed Light Emission by Applying Low-Intensity Light Measurement Technology

## **B.Educational Activities(2010.4-2011.3)**

### **B-1.On-campus teaching**

#### a) Courses given

- Undergraduate level : Landscape Architecture Part I, II (Morimoto, Y.), Planting Design for Landscape (Imanishi, J., Morimoto, Y.), Landscape Planning (Fukamachi, K.), Practice in Landscape Planning and Design Part I, II (Imanishi, J, Morimoto, Y), Laboratory Course in Applied Forest and Biomaterials Science (Fukamachi, K., Imanishi, J.), Laboratory Course in Forest and Biomaterials Science IV (Fukamachi, K.), Forest and Biomaterials Science, IV (Morimoto, Y.), Information Technology in Forest and Biomaterials Science (Imanishi, J. and others)
  
- Graduate level : Special Lecture in Landscape Architecture (Morimoto, Y.), Seminar in Landscape Architecture (Morimoto, Y., Fukamachi, K., Imanishi, J.), Laboratory Works in Landscape Architecture (Morimoto, Y., Fukamachi, K., Imanishi, J.)

### **B-2.Off-campus teaching etc.**

#### Part-time lecturer

- Imanishi, Junichi: Kyoto Seika University (Landscape Design)

#### Open lectures, etc.

- Imanishi, Junichi: The 17th Hannari Kyoto Shimadai Juku

### **B-3.Overseas teaching 1**

#### International students

- International students : Master 2 (Brasil 1, Taiwan 1) Doctral 3 (Republic of Korea 1, Malaysia 2)