

**International Development Research Course**  
**Special Lecture**  
**—Hot Topics on Agriculture—**

**Credit:** 1 credit for 7 classes.

**Evaluation:** 50% Class attendance, 50% Report submission

**Date:** 1st March (Fri) to 5th March (Tue).

**Venue:** Lecture Room no.1, 21st century plaza II.

**Lecturers:**

- Takahiro FUJIWARA, Assistant Professor, Faculty of Agriculture
- Tetsuji OTA, Post-doctoral Fellow, Faculty of Agriculture
- Hisamitsu SAITO, Assistant Professor, Faculty of Agriculture
- Hiroki SAKAGAMI, Assistant Professor, Faculty of Agriculture
- Wataru MIZUNOYA, Assistant Professor, Faculty of Agriculture
- Ryuji ICHIHASHI, Post-doctoral Fellow, Faculty of Agriculture
- Motohei KANAYAMA, Assistant Professor, Faculty of Agriculture

Class No.	Date & Time	Themes
	Mar. 1 (Fri)	
1	10:30-12:00	<p style="text-align: center;"><b>“Tropical Forest Governance in Indonesia: Focusing on Cross-Scale Interactions between Global and Local Societies”</b>  <b>Asst. Prof. Takahiro FUJIWARA</b></p> <p>Tropical forests have various ecosystem services, and it highly contributes to human well-being. Indonesia has the 3rd largest tropical forests. However deforestation is still a serious and complicated issue consisting of proximate causes and underlying driving forces. This lecture discusses cross-scale interactions between global and local societies for tropical forest governance.</p>
2	13:00-14:30	<p style="text-align: center;"><b>“Remote Sensing for Forest Management”</b>  <b>Post-Doctoral Fellow, Tetsuji OTA</b></p> <p>This lecture introduces how to measure forest. Especially, this lecture is focused on remote sensing, which is a technology to measure forest and forest change in large area.</p>
3	14:50-16:20	<p style="text-align: center;"><b>“Globalization and Rural-Urban Divide”</b>  <b>Asst. Prof. Hisamitsu SAITO</b></p> <p>In the lecture, the following topics are covered: urbanization in developing countries, rural-urban migration, and location decision of firms.</p>
	Mar. 4 (Mon)	
4	10:30-12:00	<p style="text-align: center;"><b>“What is Our Gwood Life?”</b>  <b>Asst. Prof. Hiroki SAKAGAMI</b></p> <p>Human beings have lived with wood since primitive ages. However, we are still</p>

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		unable to utilize wood materials effectively. In this lecture, basic information of wood and the newest wood technology will be introduced from a point of view in my research.
5	13:00-14:30	<p style="text-align: center;"><b>“Nutritional and Transcriptional Regulation of Skeletal Muscle Property”</b> Asst. Prof. Wataru MIZUNOYA</p> <p>The lecture introduces the basic cellular functions of skeletal muscle fibers and its key transcription factors regulating various muscle fiber properties. The new analytical method to measure whole-transcript expression called RNA-Seq will be presented in this lecture.</p>
	Mar. 5 (Tue)	
6	10:30-12:00	<p style="text-align: center;"><b>“Evaluating Canopy Transpiration of Forest Stands”</b> Post-Doctoral Fellow, Ryuji ICHIHASHI</p> <p>Introduce an overview of water cycling in forest ecosystems, techniques to measure canopy transpiration, and some example of study that applied the technique to bamboo stands and lianas to elucidate their importance in water cycling.</p>
7	13:00-14:30	<p style="text-align: center;"><b>“Soil Environmental Issues on Agricultural Land: Development and Maintenance”</b> Asst. Prof. Motohei KANAYAMA</p> <p>This lecture contains the soil environmental issues on agricultural land and introduces new techniques for improving and maintaining soil grounds and soil structures.</p>