

(For JSPS Fellow)

Form B-5

Date (日付)

20/12/2015 (Date/Month/Year: 日/月/年)

Activity Report -Science Dialogue Program-
(サイエンス・ダイアログ事業 実施報告書)

- Fellow's name (講師氏名): JYSKE Tuula Marketta (ID No. P 14395)

- Participating school (学校名): Toshimagaoka Joshigakuen High School, 1-25-22, Higashiikebukuro, Toshima-ku, Tokyo, 170-0013

- Date (実施日時): 15/12/2015 (Date/Month/Year: 日/月/年)

- Lecture title (講演題目): (in English) "Exploring the secrets of trees"

(in Japanese) 木の秘密を探る

- Lecture summary (講演概要): Please summary your lecture 200-500 words.

The lecture was comprised of the following themes:

- 1) *Finland – a country of contrasts*
- 2) *Women and men power – about gender equality issues in Finland*
- 3) *What motivated me in becoming a scientist?*
- 4) *What is fascinating in my research?*

In the first topic, I introduced myself, the Natural Resources Institute Finland, and the basics of Finland: geography, nature, people, language and cultural specialties.

The second theme provided students an overview of the past and current situation of gender equality issues in Finland, with description of social security system, and tips for young females on how to combine a successful career and a family life.

The third topic shed light on motives behind being a researcher: the role forest research in improving the wellbeing of society and environment while facing the future of declining resources and bioeconomy, my personal interests, and positive aspects of a researcher life-style.

The last topic introduced the students with basic wood structure, and highlighted the importance of studying the formation, structures and chemical properties of wooden biomass in relation to their utilization. I gave a few examples on the on-going research, including the studies of bark and phloem formation, structure and chemistry. Especially, I explained about the work we are carrying under the JSPS program, namely the localization and distribution patterns of bioactive stilbene compounds within Norway spruce phloem and bark. Also, the possibilities to utilize these compounds as a raw material in different end-uses were briefly explained. At the end of the lecture, the students had an opportunity to familiarize with the 3D structures of wood and phloem by providing them with a paper models they could prepare by themselves.

- Language used (使用言語): English

- Lecture format (講演形式): Power-point slides and supporting extra materials circulated in the class.

◆Lecture time (講演時間) 50 min (分), Q&A time (質疑応答時間) 15 min (分)

◆Lecture style (ex.: used projector, conducted experiments)

(講演方法 (例: プロジェクター使用による講演、実験・実習の有無など))

Used a projector, showed research tools & specimen, demonstrated wooden structures by 3D models.

◆Interpretation (ex.: assistance by accompanied person, provided Japanese explanation by yourself) (通訳 (例: 同行者によるサポート、講師本人による日本語説明))

Some slides in the power-point -presentation were provided with both English and Japanese titles. Dr. Kuroda (accompanied person) helped in translation during the Q&A time.

◆Name and title of accompanied person (同行者 職・氏名)

Dr. Katsushi Kuroda (host researcher) 森林総合研究所主任研究員・黒田克史

◆Other note worthy information (その他特筆すべき事項):

- Impressions and opinions from accompanied person (同行者の方から、本事業に対する意見・感想等がありましたら、お願いいたします。):

The students were interested in the topic, and actively presented questions after the lecture. Especially after the official closure of Q&A time, several students came to talk with the JSPS fellow and host researcher.