

様式 A-1  
(FY2024)

令和 6 年 10 月 9 日

## サイエンス・ダイアログ 実施報告書

1. 学校名・実施責任者氏名: 東京都立戸山高等学校・松元智志
2. 講師氏名: Dr. Senanmi Hermann Juliano HOUNDONUGBO
3. 講義補助者氏名: \_\_\_\_\_
4. 実施日時: 令和 6 年 10 月 4 日 ( 金 ) 13:20 ~ 15:00
5. 参加生徒: 1 年生 15 人、 2 年生 15 人、 3 年生 0 人 (合計 30 人)  
備考: (例:理数科の生徒) SSH の生徒
6. 講義題目: Assessing the transformation of agricultural landscapes from 1993 to 2023 under rapid urbanization in Japan and Benin
7. 講義概要: 自己紹介および日本とベナンの違い、日本とベナンにおける 1993 年から 2023 年までの急速な都市化に伴う農業景観の変容の評価
8. 講義形式:  
☒対面 ・ ☐オンライン (どちらか選択ください。)
  - 1) 講義時間 60 分 質疑応答時間 30 分
  - 2) 講義方法 (例:プロジェクター使用による講義、実験・実習の有無など)  
プロジェクター使用による講義
  - 3) 事前学習  
☒有 ・ ☐無 (どちらかに○をしてください。)  
使用教材 abstract プリントを事前に配布
9. その他特筆すべき事項:  
・abstract やキーワードが書かれたプリントと講義ノート(プリント)を事前に配布してあったので、講義についていくことができた。

Form B-2  
(FY2024)  
Must be typed

Date (日付): 2024-10-04  
04/10/2024 (Date/Month/Year: 日/月/年)

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

- Fellow's name (講師氏名): Senanmi Hermann Juliano HOUNDONOUGBO  
(ID No. P23777)

- Name and title of the lecture assistant (講義補助者の職・氏名)

Not applicable

- Participating school (学校名): Tokyo Metropolitan Toyama High School

- Date (実施日時): 04/10/2024 ; (13h-15h) (Date/Month/Year: 日/月/年)

- Lecture title (講義題目):

Assessing the transformation of agricultural landscapes from 1993 to 2023 under rapid urbanization in Japan and Benin

- Lecture format (講義形式):

◆☒ Onsite ・ ☐ Online (Please choose one.)(対面 ・ オンライン)((どちらか選択ください。))

◆Lecture time (講義時間) 45 min (分), Q&A time (質疑応答時間) 75 min (分)

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

(講義方法 (例: プロジェクター使用による講義、実験・実習の有無など))

used projector, black-board, computer and other equipments etc.

- Lecture summary (講義概要): Please summarize your lecture within 200-500 words.

Today, over 55% of the world's population lives in urban areas. This trend is set to continue, with projections indicating that by 2050, almost 68% of the world's population will reside in cities. This rapid urbanization is particularly pronounced in regions such as Asia and Africa, notably India, China and Nigeria, where these three countries alone could have more than 850 million city-dwellers by 2050. However, this phenomenon is often accompanied by adverse effects on the environment and social infrastructures. For example, the environmental impacts induced by rapid urbanization may concern (i) the reshaping of rural areas into urban landscapes, (ii) the questioning of the sustainability of agricultural regions, (iii) land scarcity and the degradation of land resources. Consequently, all these trends call for a deeper understanding of the relationship between society and nature from a sustainable perspective, in the context of global change and rapid urban growth. Our project therefore aims to answer these questions by carrying out case studies in Japan and Benin, countries that have experienced rapid growth in recent decades. Specifically, our project aims to (1) analyze the evolution of land policy in both countries over

recent decades, (2) assess spatio-temporal changes in agricultural landscapes subject to rapid urbanization in both countries, and (3) evaluate dynamic changes in the multifunctionality of agricultural landscapes over recent decades in both countries. Answers to these aspects could guide urban planners and landscape managers for sustainable preservation of agricultural landscapes at different scales in both countries in a context of global change.

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

I had a great time with the students and the Sensei from Toyama High School. It was a good experience and I hope to repeat it in the near future with the support of JSPS, maybe in other locations quite far from Tokyo. I also ended the presentation by taking family photos with the students.

- Impressions and comments from the lecture assistant (講義補助者の方から、本プログラムに対する意見・感想等がありましたら、お願いいたします。): Not applicable