

Form B-2
(FY2022)
Must be typed

Date (日付)
15/07/2022 (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): Srinurak Nattasit. (ID No.P20066)

- Name and title of the lecture assistant (講義補助者の職・氏名)
Nishimura Kanami , Master student

- Participating school (学校名): Ikedagakuen Ikeda Junior-Senior High School (Onsite),
Fujimigaoka High school (Online).

- Date (実施日時): 13/07/2022 (Date/Month/Year: 日/月/年)

- Lecture title (講義題目):
Evacuation simulation in historic town.

- 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) 80 min (分), Q&A time (質疑応答時間) 25 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))
Oral presentations used projector from computer with Q&A and Discussion.

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

Part1 Self-introduction: This part will partially introduce myself personally and professionally as a researcher and the personal reason to become a researcher in disaster evacuation science.

Part2 This part is the detail of my research. I provided the lecture on the Agent-based simulation (ABS) used to imitate the risk from sudden- evacuation which simulates the worst-case scenarios to define the vulnerable areas and pinpoint the required solution issues. The study uses a GIS-based approach to define the risk of various obstructions. The obstruction in this study categorizes into 1) Non-obstruction 2) Building rubble obstruction 3) Vehicle on-street obstruction 4) Mixed obstruction. Non-obstruction will be the baseline to measure the vulnerability of the historic area while the input parameter of obstruction will input through the GIS application and transferred to the simulation application. Then results will be compared using a statistic approach to investigate the time usage/ number of evacuees while GIS will provide the vulnerable places/ congestion on street. In the presentation, I used the building and city of Chiang Mai as an example of Agent-based Simulation in evacuation.

Part3 From the result of my research is partially included in the proposal of the World Heritage

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Initiative project that proposed the historic town of Chiang Mai as a Nomination for a World Heritage area. This part explained the importance of UNESCO heritage conservation and how the cooperation research project between Japan and Thailand contribute to the protection plan of Chiang Mai city. Finally, I led to the hope of the young generation of researcher/scientist to contribute to the world with the power of creativity.

Part4 The brief introduction of Ms.Kanami and Ms.Janjira, the graduate student from Saga University, on the research related to Chiang Mai, Thailand.

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

I am highly impress with the young scientist in these schools both onsite and online. They paid attention to our lectures and actively asked the questions. I feel very hopeful for the future of Japan and the World that we already have good spirit of young generation. Thank you for the opportunity to discuss and share with the students.

- Impressions and comments from the lecture assistant (講義補助者の方から、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。):

今回は貴重な機会を設けて下さりありがとうございました。講義補助を担当させていただいた私にとっても貴重な機会となりました。生徒の方の熱心な視聴態度や英語で質問できる能力に感銘を受け、私も一層努力しようと思いました。

先生方もタイの歴史や研究内容に興味を持ってくださって、日本の歴史と結びつけて会話をされていたのでとても勉強になりました。

重ねてになりますが、このような機会を設けて下さりありがとうございました。