

(For JSPS Fellow)

Form B-2
(FY2018)Date (日付)
18/09/2018 (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): Iyan Eka Mulia (ID No. P17055)- Participating school (学校名): Komaba High School- Date (実施日時): 15/09/2018 (Date/Month/Year: 日/月/年)- Lecture title (講演題目): The physics of tsunamis- Name and title of your accompanying person (講義補助者 職・氏名)

- Lecture format (講演形式):

◆Lecture time (講演時間) 60 min (分), Q&A time (質疑応答時間) 30 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))

Power point presentation using a projector

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

The lecture was started with a brief introduction and facts about my home country, Indonesia, which are related to my motivation to become a scientist. In the introduction part, I also explained about the historical records of natural disaster occurred in Indonesia. A specific case of tsunami event was further discussed using an example of the 2004 Indian Ocean tsunami. The main part of the lecture was about the physics of tsunamis, including the generation, propagation, and run-up. Several driving forces that can generate a tsunami were elaborated with figures and illustrations. Furthermore, simple equations to simulate the tsunami were also presented. I included a few sample cases with videos and animations to help the students in understanding the lecture materials. The next section of the lecture was about practical applications on how to reduce the tsunami impacts. A few examples were shown with an emphasis on the tsunami forecast, which is my main research interest. The last section was about the recent developments of tsunami research, particularly in Japan. I introduced several types of tsunami observing system including both the existing and possible future systems. Additionally, a study on tsunami deposit to identify paleo tsunamis was briefly presented. Finally, the lecture was ended by a short summary to review the main topics delivered during the approximately 60-min presentation.

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- Overall advice or comments to future participants in the program (今後の講師へのアドバイス):

Videos and animations really help to keep the students engaged during the lecture.

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

- Impressions and comments from the accompanying person (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。)