

(For JSPS Fellow)

Form B-5

Date (日付)

21/07/2014 (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): Dun Wang (ID No. P)- Participating school (学校名): 東京都立多摩科学技術高等学校- Date (実施日時): 16/07/2014 (Date/Month/Year: 日/月/年)- Lecture title (講演題目): (in English) Tracing Earthquake Fault Rupturing(in Japanese)

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

I gave a brief introduction concerning the rupture process of large earthquakes and the damages. Then I introduced a standard array processing method, Back-projection, and showed how this method work for tracing source process of large earthquakes. After that, I presneted our study for the 24 September 2013 M7.7 Pakistan earthquake. Aftershocks, ground damages, and rupture process all together shows a complicated source mechanism for this earthquake. One important lesson learnt from this study is that aftershock area and rupture area are not necessarily to be overlapped. This inconsistence might cause problem for the estimate of source area of large earthquakes.

At the end, I presented our work on developing a system that can track rupture process of large earthquakes that occur around Japan in real time, which would help earthquake and tsunami disaster mitigations.

- Language used (使用言語): English

- Lecture format (講演形式):

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

◆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))

No

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

No

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

No

- 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。):

This is a nice program, not only for the students, but also for me. I learnt a lot by listening to them and staying there.

I am very impressed by many of the students who kept interest in my lecture and asked thoughtful questions, though their english skills were not prefect. Most of the students would like to interact with me on this research and other things. I would say, I pretty much enjoyed this programs.