

(For JSPS Fellow)

Form B-5

Date (日付)

20/06/2016

(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): Ramesh C. Samanta (ID No. P16041)
- Participating school (学校名): Toyama Prefectural Toyama High School
- Date (実施日時): 15/06/2016 (Date/Month/Year: 日/月/年)
- Lecture title (講演題目): (in English) A Journey to the Scientific World  
(in Japanese) 科学への招待
- Lecture summary (講演概要): Please summary your lecture 200-500 words.
- To the very outset there is a brief introduction about my country India: language, religion, weather, tourist attraction, great personalities, Nobel laureates, famous scientists, institutes where foreign students can study in India. My research career and life in Europe and necessity of learning English are discussed. Then application of science in day-to-day life is explained. I introduce few well-known Japanese scientists. A general concept of catalysis and classification of catalysis is explained. My research and application to mankind is presented. We are all quite familiar to the traditional medicines. They are the part of some plants, which have been used in old days to prevent diseases. Different plants contain different compounds, which are responsible to cure the diseases. The abundance of such compounds in nature is very little compare to the requirement. We need to synthesize them artificially, which will compensate the deficiency. My research is mainly focused to the development of suitable methods to synthesize one class of marine natural products. They contain halogen atoms and are obtained in optically active form from marine algae. Development of suitable catalyst will selectively introduce the halogen atom into the molecule. The halogenated compound, formed in optically active form will be used as the main building block for the synthesis of halogenated natural products. Finally a demonstration of Suzuki Miyaura cross coupling reaction is performed by the students.
- Language used (使用言語): English
- Lecture format (講演形式):
  - ◆Lecture time (講演時間) 80 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))

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Presentation and demonstration

- ◆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))

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

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

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- 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。):