

(For JSPS Fellow)

Form B-5

Date (日付)

(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) : _____ KOTAGIRI Venkata Rao
(ID No. P14344 _____)

- Participating school (学校名): _____ Saitama Prefectural Kumagaya High School

- Date (実施日時): _____ 23/02/2015 _____ (Date/Month/Year:
日/月/年)

- Lecture title (講演題目): (in English) _____ **Plastics with Water** _____

_____ (in Japanese) _____ **水から作るプラスチック** _____

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

In my lecture, first I have talked about my country, India. I gave an overview about ancient India and some great inventions by ancient Indian scientists. I have also talked about modern India and its cultural diversity. I have showed famous institutes in India for higher education and some great Indian monuments. Though India has more than 400 languages, I have explained how English became an official language in modern India. Moreover how learning English helped Indians to get jobs and occupy important positions in global leading companies and institutes such as Apple, Microsoft and NASA. By taking some famous discoveries in Chemistry, Medicine and Physics, I tried to impress the students about the importance of science in our lives. I have stressed upon the discovery of ammonia and its role in make fertilizers, which are used to improve the yield of crops to save the world from starving for food. I have strongly recommended the students to learn English in order excel in Science. Finally I talked about my research field, Supramolecular chemistry and how it can be used to make plastics from water. In this topic I have explained about our molecular design to make tough hydrogels having more than 95% water and how they can act as a rubber like material. I have convinced the people that this approach can be used for the design of plastics from water with ultralow dependency on fossil fuels.

- Language used (使用言語): English

- Lecture format (講演形式): Slide presentation using Keynote

◆Lecture time (講演時間) 40 min (分), Q&A time (質疑応答時間) 10 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))

assistance by accompanied person

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

KIM Younsoo, PhD student at The University of Tokyo

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

- 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。):