

(For JSPS Fellow)

Form B-5

Date (日付)

17/02/2017 (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): AMIT KUMAR (ID No. P16084)- Participating school (学校名): Mie Prefectural Kawagoe High School, 510-8566- Date (実施日時): 27/01/2017 (Date/Month/Year: 日/月/年)- Lecture title (講演題目): Concepts of Chemistry and Life (in English)化学と生命の概念 (in Japanese)

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

I started my talk with a brief introduction about my country, India (Indian civilization, geography, structure, people, holiness, famous places and diversity of Indian culture). I also introduced about my host institution (Banaras Hindu University, Varanasi, India). After that, a short talk about my motivations becoming a chemist, and also about a requirement of chemistry in daily life. My talk was covering the role of chemistry and its role in other branches of science. The lecture also focused on the dependency of human being on chemical materials (food, drinks, medicine, cloths etc.) in daily uses. The main part of the lecture was attentive on introduction of basic chemistry including atomic structure with the discussion about electron, protons and neutrons. In the theory of atomic structure and chemical bonding, we discussed, how the atoms come closer to each other to form bond (ionic and covalent bonds) and what are the driving forces behind them. During my talk we solved small quiz based on previous discussion. Further, the lecture included basic introduction of organic molecules (carbohydrate, protein, lipid and nucleic acid) as main component in our body. We also talked about my research during my doctorate degree. Recently I am working on catalysis, thus I involved a small content about the role of catalysts in our life. Overall, my talk was attentive on the usefulness of chemistry in human life, and to develop the interest of high school students for chemistry.

- Language used (使用言語): English

- Lecture format (講演形式):

◆Lecture time (講演時間) 60 min (分), Q&A time (質疑応答時間) 20 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

Must be typed

- ◆ 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))

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No interpretation

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- ◆ 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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Successful

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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。):