

(For JSPS Fellow)

Form B-5

Date (日付)

25/3/2013 (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): Sudhina Guragain (ID No. P 12038)
- Participating school (学校名): Saga Chienkan High School
- Date (実施日時): 16/3/2013 (Date/Month/Year: 日/月/年)
- Lecture title (講演題目): (in English) Stimuli Responsive Colloidal Systems
(in Japanese) 刺激応答性コロイドシステム
- Lecture summary (講演概要): Please summary your lecture 200-500 words.

The lecture was divided in three parts. The first part contained a brief introduction about myself. I was born in the eastern region of Nepal and completed my Masters' level from Tribhuvan University, Kathmandu, Nepal. After completing Masters' I joined Saga University, Japan where I persued PhD and now I am a postdoctoral reseacher at the Kumamoto University.

Second part of my lecture included a brief introduction of my country, Nepal. It is a small but beautiful country surrounded by China on the North and India on the South, West and East. Though, the country is small in area but is a habitat of variety of floras and faunas. It is a naturally very beautiful country famous for trekking, mountain climbing, jungle safari.

In the third part of my lecture I briefly presented my research on stimuli responsive colloidal systems with focus mainly on the polymeric micelles. I mainly used temperature and metal ions as stimuli and observed schizophrenic micellization in hydrophilic diblock copolymer of poly(sodium 2-(acrylamido)-2-methylpropanesulfonate-b-N-isopropylacryl amide) and poly(ethylene oxide-b-methacrylic acid). Stimuli responsive polymers serve as important additives in fields as diverse as water treatment, enhanced oil recovery, controlled drug release, the formulation of water-borne coatings and personal care products.
- Language used (使用言語): English

- Lecture format (講演形式):

◆Lecture time (講演時間) 65 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

◆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)

熊本大学大学院自然科学研究科 複合新領域科学 文部科研研究員 鉢迫 博

◆Other note worthy 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。):

高校生が外国人講師に英語で講義してもらう機会を持てることは非常に有意義であると感じました。学術的なことのみならず、異文化に接する機会でもあり、今後もずっと続けてほしい事業であると思いました。