

Form B-5

Date (日付)
20/02/2012 (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): COMPAIN Jean-Daniel (ID No. P 10340)
- Participating school (学校名): Shizuoka Prefectural Iwata Minami High School
- Date (実施日時): 15/02/2012 (Date/Month/Year: 日/月/年)
- Lecture title (講演題目): (in English) An Introduction to Polyoxometalate Chemistry
(in Japanese)
- Lecture summary (講演概要): Please summary your lecture 200-500 words.

Polyoxometalates (POMs) are molecular metal-oxygen clusters which have been attracting increasing interest during the last 30 years due to their potential applications in domains as diverse as analytical chemistry, physics, nuclear waste treatment or medicine. The first part of the presentation dealt with the concept of self-assembly in POMs synthesis, focusing more on the general "building blocks" approach rather than the detail of chemical reactions behind it. The second part showed several examples of POM molecules, some related to important topics in nowadays' chemistry (catalysis, magnetism, photochromism – without going into the physics behind) and some others presenting mostly aesthetic interest (like Achim Müller's "giant" polyoxomolybdates). The most spectacular structures were displayed in three dimensions using the VESTA program, in an attempt to demonstrate how chemistry can sometimes meet art. The last part consisted in a short summary of my personal experience, putting emphasis on the importance of being overall curious and sharing knowledge with others, to finish with a display of a few pictures from my home country.

- Language used (使用言語): English
- Lecture format (講演形式):
 - ◆Lecture time (講演時間) 40 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))
Presentation with projector, with handouts given to the students to help comprehension.
- ◆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))

I had to come alone as the other lab members were busy on that day (Master course presentation sessions at the University of Tokyo), but the person accompanying the other lecturer kindly helped explaining my answers to the students.

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

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◆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。):