

Form B-5

Date (日付) 25/6/2012

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(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) : Andrew Brooke-Taylor  
\_(ID No. P 11765 )\_

- Participating school (学校名) : Ishikawa Prefectural Nanao High School

- Date (実施日時) : 11/6/2012  
\_(Date/Month/Year:日/月/年)\_

- Lecture title (講演題目) : (in English) My life as a mathematician  
(in Japanese) 数学者としての私の人生

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

I began with some information about my career in mathematics. After that, I introduced the students to the mathematical notion of "cardinality", in which two sets are said to be the same size if there is a "bijection" between them. After working through examples of sets of countable cardinality with the students, I showed them the proof that not all infinite sets have the same cardinality. In particular, I showed them that the set of real numbers has different cardinality to the set of natural numbers.

- Language used (使用言語) : English\_\_\_\_\_

- Lecture format (講演形式) :

◆Lecture time (講演時間) 100 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))

Started with computer slides, but moved on to interactive explanations with the students on the blackboard.

◆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))

Students had sufficiently good English that it was not necessary.

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

N/A

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

I was very pleased that I was able to get the students up to the black board to work through the examples themselves.

- 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。) : N/A