

Form 3

Date (日付)

16.11.2010 (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 (参加外国人研究者氏名): Rahman Shahidur Mohammad (ID No. P09262)

Participating school (参加機関(受入学校名)): Takasaki High School

Date (実施日時): 13.11.2010 (Date/Month/Year:日/月/年) Time: from 11:30 to 16:40
14.11.2010 9:00 to 12:00

Lecture title (講演題目): (in English) Ubiquitous Speech Processing: Facing the Challenge

(in Japanese) ユビキタス音声処理:チャレンジに直面

Lecture summary (講演概要): Speech processing is now ubiquitous. Computers, iPhone, iPod like smart devices are now our daily life partners. Extensive research has been conducted on enabling machines to recognize and understand speech. However, lack of robustness of the speech processing system against background noise has always impeded the expected outcome. Recently, Bone conduction technology has received a lot of attention for its insensitivity to noise. Unfortunately, bone conducted speech suffers from lower intelligibility. Today's presentation is on understanding the phenomenon of bone conduction and improving its quality.

Language used (使用言語): English

Lecture format (講演形式):

○Lecture time (講演時間) 120 min (分), Q&A time (質疑応答時間) 30 min (分)

○Lecture style (examples: used projector, conducted experiments)

(講演方法 (例: プロジェクター使用による講演、プレ実験など))

Talk using projector, demonstration for students within lecture time

○Interpreter (example: assistance by host or colleague, provided Japanese explanation by yourself)

(通訳 (例: 受入研究者によるサポート、外国人研究者本人による日本語説明))

Assistance by Colleague (PhD student)

Name and title of assistant (協力者 職・氏名) (example: host or colleague)

Atanu Saha, Colleague

○Other note worthy information (その他特筆すべき事項): We provided some explanation of the key points in Japanese (by assistant) during lecture time.

Impressions and opinions of assistant (協力者から本事業に対する意見・感想等がございましたら、お願いいたします。):

It's with great pleasure and enthusiasm that I have got a chance to participate in the Science Dialogue Program, 2010 at Takasaki High school. The students eagerly followed the lecture and asked a lot of questions.

I believe the interaction of the students with the young scientists will guide them in pursuit of innovation in the upcoming future.