

Form 3

Date (日付)

25/08/2009 (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): Timothee Levi (ID No. P08809)

Participating school (参加機関(受入学校名)): Science Frontier Yokohama High School

Date (実施日時): 18-19/08/2009 (Date/Month/Year:日/月/年) Time: from 8: to 16:

Lecture title (講演題目): (in English) Neuromorphic Engineering

(in Japanese)

Lecture summary (講演概要):

My project research is about silicon neurons. Silicon neuron is an electrical circuit that is analogous to biological neurons. Different levels of modeling exist from the neuron physiology to the plasticity of large neuron networks. The main aim is to build silicon neurons and synapses, based on this modeling, to create silicon neural networks. Those will be applied to smart-MEMS system that can operate autonomously and robustly without any specific programs.

I will also present the different projects from the LIMMS laboratories at the University of Tokyo. They deal with nanotechnology and bio-technology.

Language used (使用言語): English

Lecture format (講演形式):

Lecture time (講演時間) 180 min (分), Q&A time (質疑応答時間)        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))

Projector and movies

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))

Japanese colleague

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

Nagamatsu Yuji

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

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。):