

Form B-2
(FY2018)

Date (日付) 28/11/2018

(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): Piotr Morzyński (ID No. P17018)

- Participating school (学校名): Tokyo Metropolitan Hibiya High School

- Date (実施日時): 13/11/2018 (Date/Month/Year: 日/月/年)

- Lecture title (講演題目): Optical clocks

- Name and title of your accompanying person (講義補助者 職・氏名)
Yuichiro Yano(矢野雄一郎)

- Lecture format (講演形式):

◆Lecture time (講演時間) 60 min (分), Q&A time (質疑応答時間) 30 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 the use of projector

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

I introduced myself, my country and my institutes - Nicolaus Copernicus University in Poland and National Institute of Information and Communications Technology in Japan. I told a little about Polish history, culture and food. I introduced famous Polish people like Maria-Skłodowska Curie, Nicolaus Copernicus, Fryderyk Chopin, Lech Wałęsa and some other important Polish scientists. Then I presented basic ideas of how optical clocks works using possibly simple words. I described ultra-stable optical cavity and atomic trap. I mentioned about time standards and its role in the SI unit system. Then, I presented many applications of an optical atomic clock showing how important device it is for contemporary science and technology. After lecture students asked me about differences in working in Japan and Poland. They were also interested in some details of optical clocks. One student wanted to know a little more about history of Poland. About 25 students attended my lecture. In my opinion, the reception of students was very good. They looked interested in my presentation and they asked many questions after lecture. The atmosphere was vary nice and also the teacher Takashi Komuro was very friendly for us. I remember this day very nice and I will be happy to give another one lecture in the future if there is such request.

Must be typed

- Overall advice or comments to future participants in the program (今後の講師へのアドバイス):

- Other noteworthy information (その他特筆すべき事項):

- Impressions and comments from the accompanying person (講義補助者の方から、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。)