

Form B-2
(FY2022)
Must be typed

Date (日付)
26/02/2023 (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): Dr. Robin Orthey (ID No.P21012)

- Name and title of the lecture assistant (講義補助者の職・氏名)

- Participating school (学校名): Toyama High school

- Date (実施日時): 24/01/2023 (Date/Month/Year: 日/月/年)

- Lecture title (講義題目):

JSPS Science Dialogue – Psychological science

- Lecture format (講義形式):

◆☒ Onsite ・ ☐ Online (Please choose one.)(☐ 対面 ・ ☐ オンライン(どちらか選択ください。))

◆Lecture time (講義時間) 90 min (分), Q&A time (質疑応答時間) 30min (分)

◆Lecture style(ex.: used projector, conducted experiments)

(講義方法 (例: プロジェクター使用による講義、実験・実習の有無など))

Power point presentation + demonstration of psychophysiological experiment involving measures of the autonomous nervous system, e.g. sweat, heart-rate

- Lecture summary (講義概要): Please summarize your lecture within 200-500 words.

First, I introduces my home country, Germany, and gave a brief description of my academic path. I lived and worked in the Netherlands, United Kingdom, Israel, and Japan. After that I gave a broad overview of what it means to be a scientist and how I learned English. Then I presented the different fields of psychology with small and (generally) well known examples. Towards the end of my presentation I introduced my own topic, deception detection. I explained one of my experiments that uses brain waves to detect if an examinee is feigning cognitive deficits for tertiary gains, such as money or more lenient sentencing at court. In my experiment, participants were asked to perform a memory task twice. Once it was difficult and participants could only guess, resembling real memory impairment, while the second time the task was very easy and participants were instructed to make mistakes on purpose to feign the memory impairment. After each trial, accurate feedback was provided and based on the evoked brain potentials of the feedback stimulus I could discriminate genuine from real memory impairment. Finally, I conducted

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a demonstration of a concealed knowledge detection test used by the Japanese police with a volunteer student. The student draws one of five playing cards and I attempt to detect which number he drew. The demonstration went well.

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

- Impressions and comments from the lecture assistant（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。）: