

様式 A-1

(FY2025)

令和 7 年 7 月 16 日

サイエンス・ダイアログ 実施報告書

1. 学校名: 宮城県仙台第三高等学校・理数科部長 教諭 村田 淳
2. 講師氏名: Dr. Junjie ZHAO
3. 講義補助者氏名: なし
4. 実施日時: 令和 7 年 7 月 15 日 (火) 10:45 ~ 12:35
5. 参加生徒: 3 年生 約 220 人、 年生 人、 年生 人 (合計 220 人)
備考: 理数科の生徒 79 名 / 普通科の生徒 141 名
6. 講義題目: 『キラル選択性ガラスセラミックスの物質開拓と設計指針の確立』
7. 講義概要: ガラスの組成構造の変化によって表れる形状や色の様相に係る研究
8. 講義形式:
☒対面 ・ ☐オンライン (どちらか選択ください。)
 - 1) 講義時間 90 分 質疑応答時間 10 分
 - 2) 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)
プロジェクター使用による講義、ガラスの演示実験
 - 3) 事前学習
☐有 ・ ☒ 無 (どちらか選択ください。)
使用教材:
9. その他特筆すべき事項:

Form B-2
(FY2025)
Must be typed

Date (日付)
15/07/2025 (Date/Month/Year: 日/月/年)

Activity Report -Science Dialogue Program-
(サイエンス・ダイアログ 実施報告書)

- Fellow's name (講師氏名): Junjie Zhao (ID No. P24062)

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

N.A.

- Participating school (学校名): Miyagi Prefecture Sendai Daisan High School

- Date (実施日時): 15/07/2025

- Lecture title (講義題目):

Something about Glass

- 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) 105 min (分), Q&A time (質疑応答時間) 5 min (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))

Powerpoint presentation, glass structure and photoluminescence demo, Q&A

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

The lecture was divided into 3 parts: self-introduction, why and how I became a researcher, and the introduction to glass material and my researches.

In the first part, self-introduction, I talked about my personal experience in school and in my work, as well as gave some introduction about Guangzhou, my hometown.

In the second part, why and how I became a researcher, I talked about the reason why I entered the Ph.D. program after bachelor's degree, and how did I gain interest in glass science and research. And then, I move to the introduction of what a researcher needs to do with a lively 551 Buta Man example, and the advantages and difficulties a researcher will face.

In the third part, 'Let's talk about glass' I introduced the features of glass material and the process of making glass. Combining with theory and example, I show how to make a glass in different shapes, how to make a glass colorful, what is photoluminescence, how to make a stronger glass.

Throughout the third part, I also presented my research in between the glass introductions.

At last, I advertised the host group and the upcoming open campus in Tohoku University.



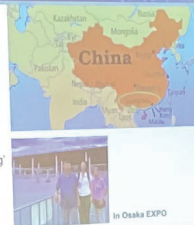
Self-Introduction

- Name: ZHAO Junjie
赵君婕
- I was born in Guangzhou, China in December 1991
- I was born in a Saturday, and 'Saturday's child works hard for a living'
- I am the only child.



Self-Introduction

- Name: ZHAO Junjie
赵君婕
- I was born in Guangzhou, China in December 1991
- I was born in a Saturday, and 'Saturday's child works hard for a living'
- I am the only child.



JSPS Science dialogue 2025 @ Miyagi Prefecture Sendai Denrai High School, 19th July 2025

English Cafe
Engineering Science
Dr. Junjie ZHAO
SCHOOL OF ENGINEERING
YONSEI UNIVERSITY