

様式 A-1  
(FY2025)

2025 年 11 月 24 日

## サイエンス・ダイアログ 実施報告書

1. 学校名：筑波大学附属駒場高等学校
2. 講師氏名：Igor GRIBANOV 氏
3. 講義補助者氏名：松川 純也 氏
4. 実施日時： 2025 年 11 月 15 日 (土) 10:00 ~ 12:00
5. 参加生徒： 年生 人、 2 年生 19 人、 年生 人 (合計 19 人)  
備考：(例：理数科の生徒) 高校2年生普通科の選択科目

6. 講義題目：質点法(MPM)を用いた海氷構造物相互作用における局所圧力モデリング

7. 講義概要：

This lecture takes you through ice research in some of Earth's most extreme environments, from Svalbard, Norway, to the frozen waters of Newfoundland, Canada.

The presentation explores how scientists study ice by conducting experiments directly on frozen lakes and ocean ice. Topics include the challenges and excitement of Arctic fieldwork, the equipment used to measure how ice bends and breaks, and why understanding ice behavior matters for engineering and climate science. But this talk is also about a personal journey. It starts in Siberia during Soviet times, when Lenin still appeared on banknotes. Then comes studying in the United States, returning to Russia years later, and eventually finding an unexpected home in Newfoundland, one of the coldest yet most welcoming places in Canada.

Through photographs from expeditions in Norway and Canada, the lecture shows that science is about more than just working in laboratories. It's about exploration, adventure, following your curiosity across continents, and sometimes discovering where you belong while studying our planet's frozen regions.

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 100 分 質疑応答時間 20 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

- 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：

特にありません。

Form B-2  
(FY2025)  
Must be typed

Date (日付)  
19/11/2025 (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): Igor Gribanov \_\_\_\_\_ (ID No.P 24720 \_\_\_\_\_)

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

Junya Matsukawa

- Participating school (学校名): Junior & Senior High School at Komaba

- Date (実施日時): 15/11/2025 (Date/Month/Year: 日/月/年)

- Lecture title (講義題目):

Adventures in Ice Research: Field Experiments in the Far

- 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) 100 min (分), Q&A time (質疑応答時間) 20 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))

Projector \_\_\_\_\_

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

This lecture takes you through ice research in some of Earth's most extreme environments, from Svalbard, Norway, to the frozen waters of Newfoundland, Canada. The presentation explores how scientists study ice by conducting experiments directly on frozen lakes and ocean ice. Topics include the challenges and excitement of Arctic fieldwork, the equipment used to measure how ice bends and breaks, and why understanding ice behavior matters for engineering and climate science. But this talk is also about a personal journey. It starts in Siberia during Soviet times, when Lenin still appeared on banknotes. Then comes studying in the United States, returning to Russia years later, and eventually finding an unexpected home in Newfoundland, one of the coldest yet most welcoming places in Canada. Through photographs from expeditions in Norway and Canada, the lecture shows that science is about more than just working in laboratories. It's about exploration, adventure, following your curiosity across continents, and sometimes discovering where you belong while studying our planet's frozen regions.

◆ 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、本プログラムに対する意見・感想等がありましたら、お願いいたします。):