

Theme: Invitation to Fluid Science

Professors in charge:

○Prof. Takehiko Sato (TEL: 022-217-5320, Email: takehiko.sato.d7@tohoku.ac.jp), Prof. Hidemasa Takana, Prof. Makoto Ohta, Prof. Hiroki Nagai, Prof. Atsuki Komiya, Prof. Yuka Iga, Prof. Yuji Hattori, Prof. Takashi Tokumasu, Prof. Kaoru Maruta, Prof. Jun Ishimoto, Prof. Tetsuya Uchimoto, Prof. Kazuhiko Endo, Assoc. Prof. Hisashi Nakamura, Assoc. Prof. Kenichi Funamoto, Assoc. Prof. Akihiro Hayakawa, Assoc. Prof. Anna Suzuki

Number of people enrolled: 15 people at maximum

Implementation period: 3rd quarter

Schedule of the first lecture: October 2, 2023 (Mon.) from 16:40

Meeting place of the first lecture: Meeting Room, 2F of the Bldg. 1, Institute of Fluid Science, Katahira Campus (As for the meeting places of the second and subsequent lectures, please follow the instructions by each professor.)

Outlines: Our surroundings are filled with "flows," but these flows are more complex and diverse than we imagine. In this training course, we will cover a wide range of fluid phenomena, including plasma flow, Functional flow, blood flow, flow in aircraft and spacecraft, flame flow, flow in liquid rocket engines, heat flow, flow inside next-generation batteries, underground flow, mixing flow, non-destructive testing of new materials, simulation experience of traffic flow, seeing the invisible by using light, green nanotechnology and semiconductors, combustion science for carbon neutrality, and manipulation of cell functions in fluid science. By observing actual research sites, students will be able to learn how to understand the wonders of fluid flow.