

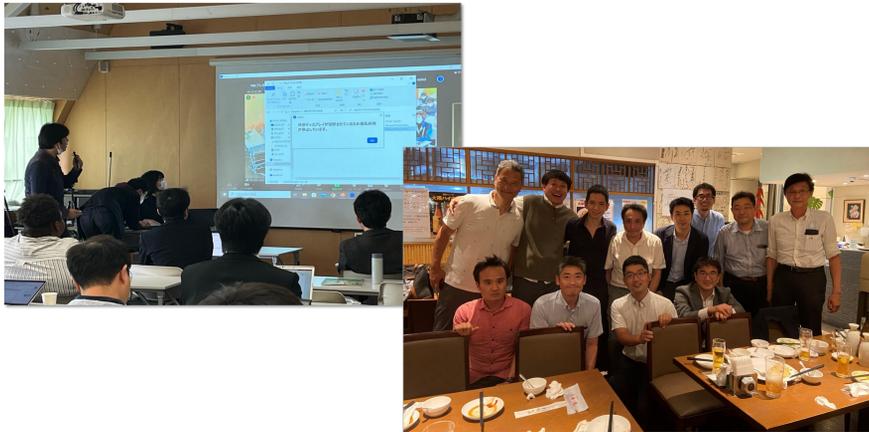


台風科学技術 創出・社会実装コンソーシアム

Typhoon Science and Technology Innovation Consortium

This consortium aims to collaborate between TRC members and numerous companies within the framework of industry-academia-government collaboration to develop and promote products and services that use typhoon science and technology.

- Information Sharing:** Sharing the latest research and initiatives
- Roadmap:** Creating roadmaps toward the social implementation
- Demonstration:** Promotion of social demonstration tests
- Commercialization:** Promotion of business realization
- Standardization:** Standardization and specification related to typhoon technology
- Policy:** Proposals to various parties regarding policies and measures



Seminars about typhoon sciences and technologies

- Knowledge Sharing** Sharing the recent research status and directions of TRC researchers.
- Networking** Discussing and networking with members of each TRC laboratory.



Working Group (WG) for creating new challenges with industries

- Typhoon Power Generation WG** Discussing a roadmap for typhoon power generation technology considering a comprehensive perspective that includes science, technology, business, and society.
- Typhoon Data Science WG** Discussing feasibility and effectiveness of leveraging data science including AI to make a breakthrough social problem closely related to typhoon through synergy effects among science, technology, business, and society.

Participating companies and their opinions



Voices of Participating Companies

Your company's opinions and thoughts

- We are preparing to build a new mobile communication network using a High Altitude Platform Station (HAPS) that flies in the stratosphere. HAPS is a special unmanned aircraft that can fly continuously in the stratosphere at an altitude of about 20 km for a long period of time, powered only by solar power. However, HAPS is more susceptible to weather conditions than conventional aircraft because its speed is much slower than that of conventional aircraft. While we believe that HAPS will not be directly affected by typhoons at an altitude of approximately 20 km, there is no guarantee that there will be no impact at all. For this reason, we are conducting research and surveys on the stratospheric environment above typhoons, but information is scarce, and we look forward to the activities conducted by the TRC Consortium. On the other hand, if HAPS flies over the entire world in the future, it may be possible to collect a vast amount of stratospheric meteorological information, and we believe that this will contribute to typhoon research as well. (SoftBank Corp.)
- In the current state where it is highly probable for the kind of changing-climate-related natural disasters we have never experienced to occur in near future, we believe the understanding the changing climate with sound physical basis will be the fundamental step to face these problems. Although promoting safety against climate to come in the field of construction is of our major concerns, we want to make the knowledges provided by the TRC consortium useful in our action of contributing to solving the problems associated with global warming widely. (OBAYASHI CORPORATION)

What I'm glad I did

- There are still many unresolved matters regarding typhoons, and we were able to recognize again that there is demand for further analysis from a variety of fields. (SoftBank Corp.)
- There are many things we appreciated through joining TRC consortium. Being able to meet in the member seminar not only the most current scientific knowledges about typhoon but also ways of thinking of taking advantage of their energy is an example of such things. Post lecture discussion held in the seminar including the economical as well as social scientific viewpoints are also among them. That we were able to have opportunities of our becoming acquainted with the members of the consortium who works in the fields different from ours was our great pleasure. (OBAYASHI CORPORATION)

Expectations for the future and what we want to achieve

- We have found that there is a strong need for typhoon research in a various fields. We hope that the TRC Consortium will be a place where we can share necessary information and make connections with relevant researchers. (SoftBank Corp.)
- We expect the consortium will continue to be developed as a platform where pure science and industry meet and freely stimulate with each other so as for the ideas of solving problems to synthetically be produced.(OBAYASHI CORPORATION)