

INBERBON PROJECT NEWSLETTER

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INBERBON members visited at the rubber plantation in Dien Bien Province

Visit to Rubber Plantation in Dien Bien Province - Expanding Rubber Industry in the North Vietnam

On May 6, 2025, INBERBON Project members visited Dien Bien Rubber Joint Stock Company in Dien Bien Province to observe the current state of the rubber plantation industry in the region.

Dien Bien Province began planting rubber trees in 2008, and the cultivated area has since expanded to approximately 4,000 hectares, making it one of the key industries in the region. Trees planted in 2008 began yielding latex in 2017, and now, the plantations produce an average of 1.5 tons of latex per hectare annually, with a maximum yield of 2.3 tons per hectare. The latex harvesting season runs from April to December each year, with peak yields typically occurring between August and October. Each tree can yield up to 1 liter of latex per tapping session, and the quality of the latex is considered comparable to that produced in southern Vietnam. The company supplies the harvested natural rubber to domestic tire manufacturers as raw material. Seeing the production site firsthand gave us a strong sense of the development and future potential of the rubber industry in northern Vietnam. The collected latex and soil samples from this visit will be brought back to HUST for further research.

TOPICS'

- Visit to Rubber Plantation in Dien Bien Province
- Gr1 and Gr2 Conduct Training on SDD
- Gr1 and Gr2 Completion of the SDD Operation Manual in Vietnamese
- Gr3 and Gr4 Research Meeting Held at HUST
- Collaboration through Industry-Academia Partnership -Visit to Y-TEC Vietnam
- Delegation from the Japan National Mirror Committee of the Japan Rubber Manufacturers Association (ISO/TC 45) Visits HUST
- A PhD Student from NJT Conducts Research and Technical Exchange at HUST
- SATREPS Project Achievement: - Mr. DANG HONG SON Enrolls in Master's Program
- Collaboration with Vietnam Rubber Group Field Survey for International Standards Development in Laos and Cambodia

Gr1 and Gr2 Conduct Training on SDD

On March 12, 2025, Assoc. Prof. Yoshimasa Yamamoto from the National Institute of Technology, Tokyo College, conducted a training session for students on the operation of the Spray Drum Dryer (SDD) located in the Japan Corner at Hanoi University of Science and Technology. This session was carried out in collaboration with Sumitomo Riko Company Limited, whose experts joined online to provide technical support. Assoc. Prof. Yamamoto explained the operation procedures and safe handling of the equipment, while Sumitomo Riko's specialists offered troubleshooting advice remotely. Through this hands-on training, students enhanced their practical skills and understanding of SDD technology. The project will continue to focus on technical training and skill development to support future innovation and industry readiness.



Instructions for SSD operation by Dr. Yamamoto

Gr1 and Gr2 Completion of the SDD Operation Manual in Vietnamese

After the training conducted in March 2025 under Gr1 and 2, the Vietnamese version of the operation manual for the SDD has been completed. The SDD is a machine that dries liquid materials by spraying them into fine droplets, which are then dried on the surface of a rotating drum. This technology can also be applied to drying rubber products. When drying rubber materials (such as rubber latex or solutions), the liquid components are sprayed and rapidly dried on the surface of the rotating drum. This process allows for efficient drying after rubber processing and molding, resulting in a uniform and high-quality finish. Going forward, HUST plans to use the SDD for various research projects.



HANOI UNIVERSITY OF SCIENCE AND TECHNOLOGY - HUST
ĐẠI HỌC BÁCH KHOA HÀ NỘI
CENTER FOR RUBBER SCIENCE AND TECHNOLOGY - CEBER
TRUNG TÂM KHOA HỌC VÀ CÔNG NGHỆ CAO SU
-----BOOK-----

SPRAY DRUM DRYER

Máy sấy phun kết hợp trống quay

USER MANUAL

HƯỚNG DẪN SỬ DỤNG



SDD user manual

Gr3 and Gr4 Research Meeting Held at HUST

On March 13, 2025, Assoc. Prof. Daisuke Kasai and Assoc. Prof. Takahiro Watari from Nagaoka University of Technology (NUT), and Dr. Namiko Gibu from the National Institute of Technology, Okinawa College, visited HUST and held a research meeting.

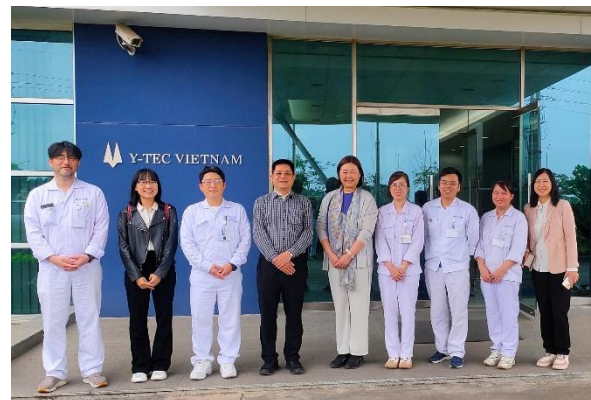
The meeting was part of academic exchange and research collaboration between Japan and Vietnam. Leaders of Group 3 and Group 4 gathered to share recent research results and discuss future joint research plans. From the Vietnamese side, Group 3 leader Dr. Dam Thuy Han and Gr4 Assoc. Prof. Nguyen Lang Huong joined the meeting.



Research meeting (Group 4)

Collaboration through Industry-Academia Partnership -Visit to Y-TEC Vietnam

On March 28, 2025, we visited Y-TEC Vietnam Co., Ltd in Hai Phong Province. Established in 2013 as a member of the Yamashita Rubber Group, Y-TEC Vietnam is engaged in the design, simulation, testing, and material development of critical components related to automobile safety. During this visit, we held active discussions on products using natural rubber and the associated research data. After the meeting, we toured the Y-TEC Vietnam factory, gaining a deeper understanding of the production processes and equipment on-site. We will continue to further promote research collaboration through industry-academia partnerships with companies.



Visited at Y-TEC Vietnam

Delegation from the Japan National Mirror Committee of the Japan Rubber Manufacturers Association (ISO/TC 45) Visits HUST

On April 22, 2025, representatives from the ISO/TC45 Japan National Mirror Committee of the Japan Rubber Manufacturers Association visited the Center for the Rubber Science and Technology at HUST. The delegation included Chair Mr. Hiroshi Yamada, Vice Chair Mr. Makoto Misawa, and Secretary-General Mr. Shunichi Usui. They met with Assoc. Prof. Phan Trung Nghia, Project Manager of INBERBON, to discuss ongoing ISO/TC45 initiatives and Vietnam's current standard proposals. ISO/TC45, under the International Organization for Standardization (ISO), develops international standards for rubber and rubber products to improve quality, safety, and global trade. Both sides emphasized the importance of strengthening Japan-Vietnam cooperation in standardization efforts, and affirmed their commitment to future collaboration.



The Delegation member of the Japan National Mirror

A PhD Student from NUT Conducts Research and Academic Exchange at HUST

From April 26 to May 13, 2025, Mr. Ta Anh Viet, a Ph.D. student at NUT, conducted field research at the Center for Rubber Science and Technology at HUST. His research focused on Activities 1 and 2 of the Project. During his stay, he presented his findings from NUT to researchers and students at HUST, promoting active academic and technical exchange. This visit strengthened collaboration between the two institutions and exemplified the ongoing partnership between Japan and Vietnam in scientific research. His visit also offered valuable opportunities for young researchers to exchange perspectives and build professional networks.



Academic Exchange btw NUT and HUST students

SATREPS Project Achievement: Mr. DANG HONG SON Enrolls in Master's Program at NUT

As part of our ongoing efforts in international human resource development under the SATREPS Project, we are delighted to announce a meaningful milestone. Mr. DANG HONG SON has officially commenced his studies in the Master's Program at the Graduate School of Nagaoka University of Technology, supported by the long-term training scheme of the JICA INBERBON Project. This achievement highlights the tangible outcomes of SATREPS' commitment to capacity building and represents an important step toward developing advanced human resources through global collaboration.

We warmly congratulate Mr. SON and look forward to witnessing his academic growth and future contributions to the field.



University Entrance Ceremony at NUT

Collaboration with Vietnam Rubber Group: Field Survey for International Standards Development in Laos and Cambodia

From March 31 to April 4, 2025, the Vietnam Rubber Group (VRG), in collaboration with the Vietnam Institute for Standards and Quality, conducted a field survey, to support the development of international (ISO) and national (TCVN) standards in the rubber industry. Assoc. Prof. Phan Trung Nghia joined the delegation which visited four VRG-affiliated rubber companies located in Laos and Cambodia, inspecting plantations, processing factories, and laboratories. The purpose of this mission was to assess the current state of production and quality management systems at these facilities and to promote alignment with international standards. During the visit, the delegation also engaged in discussions with company representatives and held meetings with standardization bodies in each country. This initiative is expected to contribute significantly to improving quality and enhancing the global competitiveness of the rubber industry in Vietnam and the surrounding region.



Visit the Rubber company at Laos



Explanation of SDD by Prof. Nghia at the Rubber company at Cambodia

The INBERBON Project is implemented under the SATREPS (Science and Technology Research Partnership for Sustainable Development) program and is jointly conducted by Hanoi University of Science and Technology and Nagaoka University of Technology. SATREPS is a collaborative initiative by JST and JICA that promotes international joint research with developing countries to address global challenges.

If you're interested in the project, feel free to contact us:

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More information about the project is available at:

<https://www.satreds-inberbon.com/>

<https://www.jica.go.jp/oda/project/202006301/index.html>

