## PBL at AGH University of Science and Technology in Poland

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<th>Implementation period</th>
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<th>SIT’s implementation partner organization</th>
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<td>2020/02/24 ~2020/03/06</td>
<td>Poland</td>
<td>AGH University of Science and Technology</td>
<td>Department of Engineering Science and Mechanics, Department of Engineering Science and Mechanics, takasaki akito(AGH University of Science and Technology, Professor), hashimura shinji(AGH University of Science and Technology, Professor)</td>
<td>Students 8, Professor 2 (AGH University of Science and Technology, Students 11, TA 1, Professor 4, Staff 2)</td>
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The Winter School was held at AGH University Science and Technology in Poland, Krakow, from Feb. 24 to Mar. 6th. The hosts at AGH UST are Professor Janush Szmyd, Professor Grzegorz Brus and Dr. Marcin Moździerz. The Winter School’s topics and group members are as follows:

**Group 1:** Mateusz Michna, Weronika Ciółko, Magdalena Ćwierz, Kotaro Hirata, Akane Kageyama  
**Topic:** The Sun as a reliable energy source? Comparison and perspectives of the solar power market in Japan and Poland  

**Group 2:** Jakub Zychowicz, Aleksandra Podsiadła, Jan Skwarek, Nonomura Yoshito, Tago Aoba  
**Topic:** Comparative analysis of Polish and Japanese buildings’ thermal insulation systems  

**Group 3:** Konstancin Marcinowski, Marcin Magierło, Kenta Nishimura, Tomoki Tanikawa  
**Topic:** Hydrogen-based chemical and energy systems — hydrogen production and usage in Poland and Japan  

**Group 4:** Jakub Wiszniewski, Jakub Banach, Zuzanna Zgorzalek, Masahide Ito, Yuma Nitta  
**Topic:** Polish and Japanese coal-based energy conversion systems — current status and future perspectives

The Winter School was composed of a welcome party, a laboratory works, English class (Japanese), midterm presentation, a final presentation, a farewell party, etc. The final presentation was evaluated by the committee and by other groups with scale from 1 to 5, based on the following evaluation standards:

1. **Creativity:** Did the group obtain creative results?
2. **Usefulness:** Did the group obtain results that hit the point of the theme, which is useful in general or global problem solving?
3. **Completeness:** Did the group obtain results with a higher degree of completion through analysis, plan, and evaluation?
4. **Teamwork:** Did the group work together and tightly?
5. **Achievement to the Goal:** Did the group achieve the goal that was set at the beginning?