

6<sup>th</sup> International Conference on

# RENEWABLE & NON-RENEWABLE ENERGY

May 20-21, 2019 | Miami, USA

## AGH Solar Boat as sustainable solution to combat climate change

**Aleksandra Skolarz, Karolina Stuchly and Dominika Kurczynna**

AGH University of Science and Technology, Poland

**Statement of problem:** Nowadays we are challenged by many issues regarding pollution in natural environment. Peoples' actions have a big impact on many environmental aspects including water which makes up to 71% of Earth's surface. There are various types of pollution sources. The biggest problem are marine transportation ships, nonetheless we have to point out the way people use inland waters. Rivers and lakes are used for recreational, cargo and communication purposes. Currently vast majority of boats is powered by conventional sources of energy. It has a negative impact on water quality as well as on people's life. One means of combating the issue is to replace boats that are powered by conventional

energy sources with boats that are powered by solar energy. This paper considers applying that solution by the example of solar boat built by students from AGH University of Science and Technology in Cracow, Poland. The paper compares solar boat and regular boat powered by non-renewable energy sources. It considers how it affects the environment and natural ecosystems. Furthermore, it shows the possibility to use solar boat in different areas of human life. Studies were performed based on a boat built by AGH Solar Boat Team. Study includes, among other areas, the energy use as a function of velocity and noise level for solar boats.

### Biography

Karolina Stuchly is a Mechanical Engineering student from AGH University of Science and Technology in Krakow, Poland. He is the Project coordinator of AGH Solar Boat Team and Member of Ministerial scholarship "Best of the best".

[karolina.stuchly@gmail.com](mailto:karolina.stuchly@gmail.com)