The American Ceramic Society (ACerS) Germany Chapter and the Materials Research Society (MRS) University Chapter at the University of Cologne invited to the "4th International Online Workshop focused on Quality and Education (SDG no.4)". Science education deals with processes related to the natural and physical world and thus is crucial to shape a modern sustainable society. The engagement of impactful but greener and



affordable scientific experiments in early-stage education such in schools or undergraduate studies lay the foundation for an early development of awareness for sustainability. We brought together scientists and students who are actively contributing to science education and discussed possible strategies and actions according to the motto: "Sustainability Education-Educate Sustainability".

Summary of the Event



The 4th International Sustainability Workshop focused on the Sustainability Development Goal "Quality education" (SDG no. 4) organized by the ACerS Germany Chapter in cooperation with the MRS Chapter Cologne and Sustainability Initiative University of Cologne, bringing together ambassadors from the field of education and teaching.

The program started with Anna Kathrin Schmidt-Verma and Michael Wilhelm from the University of Cologne. Both have reported on their experiences they have made with students different ages. The focus was primarily on questions like: What does sustainability mean to you and what can we actively do? The answers were astonishing, even in the third grade. The children knew a sustainable behaviour is of great importance.

What does Education for Sustainable Development mean?





Therefore, bringing chemistry and science closer to students, especially in relation with sustainability, cannot start early enough. We have noticed that there is a great deal of interested in understanding the world, which is why it is of great importance to convey knowledge as early as possible to make a change. Florian Genz presented the implementation of modern technology and artificial intelligence into school education. Experiments with self-made robots, sensors and more create room for

students and teachers to follow up future technology. Finally, Rodrigo Zapata, explained the possibilities for university students to actively engage for more sustainability by joining the Green Office Movement. A Green Office allows students to shape and create sustainable solutions in their institutes including greener campuses, international collaborations as well as sustainable education practises.

