Science on stage

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Pictures and diaries of the legendary Antarctic Expedition of sir E. Shackleton and his crew aboard the Endurance (1914/16) have become the starting point to learn about Natural Science, Earth Science and Climate Change. Students, 12 years old, were involved in hands on activities, took part to a network project, used interactive virtual labs, talked to university researchers on Skype and became the writers of a play. The theater was the place to act the story of Shackleton’s expedition, to “stage” some scientific experiments and to tell to the audience about ice cores, climate change, physical and geographical characteristic of polar regions, thermal phenomena related to adaptations of polar animals, solar radiation at different latitude, day/night duration. The project was carried out from teachers of science, letters, geography and English in collaboration with the “Piccolo Teatro di Milano”, the association “Scienza Under 18”, researchers of the “Byrd Polar and Climate Research Center of Ohio State University” and of “M. Zucchelli Station” based in Antarctica. In our opinion drama activities improve both verbal and non-verbal communication skills and soft skills such as teamwork, responsibility and commitment. To be able to write and to act, students need a deep understanding of contents. To have an audience different from their own teachers and classmates and to interact with university researchers offer real tasks. The project aims to develop a relevant skill for the students: to become awareness citizens in a changing word.