



## **The seeds left in Italy by the educational program of the ANDRILL (ANtartic geological DRILLing) research**

Matteo Cattadori (1) and Fabio Florindo (2)

(1) Museo Tridentino di Scienze Naturali, Trento, Italy (mcattadori@gmail.com), (2) Istituto Nazionale di Geofisica e Vulcanologia, Roma, Italy (fabio.florindo@ingv.it)

One of the main purposes of the ARISE program, the educational initiative by the ANDRILL research, was to “integrate polar geoscience content into a range of learning environments”. In the range of this program, an Italian science teacher created and developed through 2006 and 2007 a specific project called [progettosmilla.it](http://progettosmilla.it) ([www.progettosmilla.it](http://www.progettosmilla.it)). With the services consequently created, this initiative managed to involve more than 2000 students and 100 teachers across the Italian territory.

Though, what is left of that experience four years later?

This contribution focuses on the description of the long-term effects of that event on the earth system science education in Italy. It offers the chance to analyze some of the most significant educational projects rooted in the network of (local and national) institutions which supported the [progettosmilla.it](http://progettosmilla.it)-ANDRILL program. Among these:

- the Ortles project: an E&O initiative developed in the range of an international paleoclimatic research on the biggest ice-cap of the Eastern Alps (by Italian and U.S. universities and centers of research);
- the I-CLEEN (Inquiring on Climate & Energy) project: an information gateway collecting educational resources, which promotes an enquiry-based approach and is managed by science teachers (by the Natural Science Museum of Trento- Italy)
- the SPEs (Summer Polar School for Teachers): a summer class where research, researchers and teachers illustrate polar themes and lectures to be introduced in scholastic programs (by the National Museum of Antarctica- Italy)
- the first European edition of IESO (International Earth Science Olympiad), initiative to be held in Italy in 2011 (by University of Modena and Reggio Emilia- Italy)

Through the analysis of these projects it will be possible to gain useful clues and answer more complex questions, such as:

Which are the key factors for the success of such a project, aimed to the cooperation between scientists and teachers? Why an Educational & Outreach program of a scientific research should invest on science teachers?