Geophysical Research Abstracts Vol. 17, EGU2015-4206-1, 2015 EGU General Assembly 2015 © Author(s) 2015. CC Attribution 3.0 License.



## Simulators, Remote Labs and Robotic Telescopes

## Alvaro Folhas

Escola Secundária Adolfo Portela, Águeda, Portugal (alvaro.folhas@gmail.com)

There is an increasing gap between students of the twenty-first century and the teaching methodology still stuck in the past century. The myriad stimuli that involve our students, immediate consumption of information, and the availability of resources, should cast the teacher in search methodologies that encourage the student to learn.

The simulators, virtual laboratories and remote controlled robotic equipment are examples of high didactic potential resources, created by scientific organizations and universities, to be used in education, providing a direct interaction with science and motivating our students to a future career in science. It is up to us to take advantage of that work, and those resources, to light the sparkle in the eyes of our students.

In Astronomy Club I've developed with high school students some practical projects in science, using, over the web, the robotic telescopes through which the students are studying and photographing deep sky objects; or the European network of radio telescope, measuring the speed of the arms of our galaxy in our galactic dance, their temperatures showing where it is more likely to form new stars. Students use these tools, engaging in their own knowledge construction, and forego their Friday afternoons without a hurry to go home for the weekend. That's the spirit we want for the school.