

AN EDUCATIONAL PROJECT FOR INTERACTIVE TEACHING OF PLANETARY SCIENCE IN COLOMBIA

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In the last decade, the deep understanding of minor solar system objects has been the main interest in planetary sciences research. Planetary science is the perfect definition for an array of scientific disciplines that together try to seek answer about how the solar system formed. Around this latter, until now, thanks to the SENTRY of the Jet Propulsion Laboratory (JPL), we know that there are more than 28 thousand near-earth objects (NEO) [1]. Objects causing fireballs are usually not large enough to survive passage through the Earth's atmosphere intact. Likewise, around the latter there is a relevant topic, sometimes it is possible to recover fragments of meteorites on the ground giving the opportunity to research such impactors. All around NEO, fireball, meteorites events, and impact events of some of these objects on Earth [2] lead both, the general public and scientific community alike to ask the question, how often are such impacts on the earth, and what is the hazardous level of them to the earth? One of the challenges with addressing these questions is communicating under the expertise and the research basis of these topics. Through research, education, and outreach project at the University named SAROS [3], we have developed a STEM program not only for the University but for the general community as well. The aim of this work is to give the correct understanding of such objects of the solar system, but also to teach how these objects are important for the complete understanding of the birth of life here on Earth. This poster presentation will give a summary of two years of rich activities but above all how to link research and outreach around these topics.

References:

- [1] <https://cneos.jpl.nasa.gov/sentry/>
- [2] <https://cneos.jpl.nasa.gov/fireballs/>
- [3] <https://scienti.minciencias.gov.co/gruplac/jsp/visualiza/visualizagr.jsp?nro=00000000001089>