

Interactive Presentations (IP)
Topic 12 - Interactive Presentations (12)

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NATURAL PHYSICS GLOBAL OUTREACH: A GLOBAL OUTREACH TEMPLATE FOR OUR
GLOBAL COMMUNITY

Abstract

An ongoing theme throughout many of the presentations given at the United Nations/Costa Rica Workshop on Human Space Technology, 7 - 11 March 2016, San Jose, Costa Rica, was the need to connect-up with people concerning the Human Space Technology Initiative (HSTI), and to organize outreach activities to accomplish this. In particular, three target groups were identified as being the general public including students, stakeholders, and decision makers. Students were specifically discussed as being strongly motivated by human space exploration to enter science and technology careers, which could encourage them to pursue highly specialized skills. It was recognized by participants that the human element of space exploration uniquely captivates the imagination and fosters national self-confidence. I referenced this in my technical presentation at the COPUOS 59th Session as a delegate from Costa Rica in the role of advisor on space education and outreach.

The National Workshop on Astronomy for Teachers, 22 - 23 June 2016, Federal University of Technology Akure (FUTA), Ondo State, Nigeria, was designed to promote the teaching of STEM by introducing Astronomy, in a simplified and readily comprehensible format, to primary and secondary school teachers in Nigeria. As the Invited Guest Speaker and Professional Trainer my presentations led to representative schools adding Astronomy to their academic curriculum or as an enrichment program, which I subsequently reported in my poster presentation at the 25th IAF.

My oral presentation at the 27th IAF resulted in a request from attendees to form a collaboration utilizing my space education and outreach methodology:

STEAM Powered Sustainable Development Goals Demonstrating Sciences, Technology, Engineering, Arts, and Mathematics as Vehicles to the UN SDGs 5 - 7 May 2020 San Jose, Costa Rica

STEAM in the classroom leads to Quality Education and Gender Equality leading to an increase in the number of individuals male and female who choose to pursue careers in space science and technology, which in turn leads to an increase in the number of professionals within Costa Rica trained to use space science and technology to address Costa Rica's Climate Action, Life Below Water, and Life On Land. In reaching, educating, and motivating the identified target groups of stakeholders, government officials, CEOs, decision makers, gender equality, teachers, students, and the general public, our program defines a national event for Costa Rica, a regional event for Central and Latin America, and an international event for our global community!