



## **Education and Outreach on Space Sciences and Technologies in Taiwan**

Jann-Yeng Tiger Liu (1,2), hao-Yen Chen (1), and I-Te Lee (1)

(1) Institute of Space Science, National Central University, Chung-Li, 32001, Taiwan, (2) National Space Organization, Hsinchu 30078, Taiwan

The Ionospheric Radio Science Laboratory (IRSL) at Institute of Space Science, National Central University in Taiwan has been conducting a program for public outreach educations on space science by giving lectures, organizing camps, touring exhibits, and experiencing hand-on experiments to elementary school, high school, and college students as well as general public since 1991. The program began with a topic of traveling/living in space, and was followed by space environment, space mission, and space weather monitoring, etc. and a series of course module and experiment (i.e. experiencing activity) module was carried out. For past decadal, the course modules have been developed to cover the space environment of the Sun, interplanetary space, and geospace, as well as the space technology of the rocket, satellite, space shuttle (plane), space station, living in space, observing the Earth from space, and weather observation. Each course module highlights the current status and latest new finding as well as discusses 1-3 key/core issues/concepts and equip with 2-3 activity/experiment modules to make students more easily to understand the topics/issues. Regarding the space technologies, we focus on remote sensing of Earth's surface by FORMOSAT-2 and occultation sounding by FORMOSAT-3/COSMIC of Taiwan space mission. Moreover, scientific camps are given to lead students a better understanding and interesting on space sciences/technologies. Currently, a visualized image projecting system, Dagik Earth, is developed to demonstrate the scientific results on a sphere together with the course modules. This system will dramatically improve the educational skill and increase interests of participators.