

## 6<sup>th</sup> IAA

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**Topic : Disaster Response/Public Education and Communication**

### **Role of Space Technology for Disaster Management : : Agenda and Action Plan**

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#### **ABSTRACT**

Disasters cause untold human miseries and ecological losses. As per UN reports, Disasters on a yearly basis have increased by over five times in the last one century. The UN International Decade for Natural Disaster Reduction (IDNDR) emphasizes reduction of impact of natural disaster using conventional and advanced technologies. Presently, IRS system is the largest civilian remote sensing satellite constellation in the world, providing images in a variety of spectral resolutions and swaths to address natural disasters (Srinivasan Rao, 2013).

Community Empowering Role Models in Space Eco Literacy are available for Disaster Management (Jagannatha V, 2018).The efficacy of remote sensing technologies for disaster management are evident in cases studies (Ronald T. Eguchi 2008).Further, in recent years the Open GIS technology standards have been developed by several agencies (Rajesh Shrivastava 2014).

In this background, APELL has proven to be successful approach for addressing emergency preparedness for industrial accidents, natural disasters and multi- hazard risks, thereby preventing losses (APELL, UNEP 2012). APELL a partnership program model between local authorities, industries and community using conventional and remote sensing technology for disaster management are presented. Three Space Eco Literacy Models, EESS Ecological and Environmental Studies by Students cited as one of the best 20 Eco Education Guide by Earth day Network 2000 and shared in 192 countries to 4500 organizations and Eco Literacy at Community Levels and Space Eco Literacy for parents and children are presented. National Institute for Disaster Management and district level State Disaster Plans in Karnataka State which are operational are discussed. Best Practices in UN formats are documented and reported. It is recommended that the disaster plans with space techniques are integrated to Education and Communication formats in School curriculum..