



Earth Observation education in Sustainable Development

Session Moderator: Prof P S Roy, Senior Advisor, ICRISAT, Pathancheru, Hyderabad

Speakers:

1. Dr Ishwaran Natarajan, Former UNESCO, Paris

2. P K Joshi, Ph. D, Professor, School of Environmental Sciences & Concurrent Faculty, Special Centre for Disaster Research

Jawaharlal Nehru University, New Delhi 110 067 - India

3. Dr Anand Sharma

IMD, New Delhi

4. Dr Rizwan Ahmad

Visiting Faculty, Interdisciplinary Department of Remote Sensing, AMU

Most people in the world today have an immediate and intuitive sense of the urgent need to build a sustainable future. There may be debate on the precise definition of ‘sustainable development’ or ‘sustainability’ but they clearly sense the danger and the need for informed action. Sustainable development (SD) is a difficult concept because it requires systems thinking and the integration of considerations about economic, environmental and social factors. Earth Observation (EO) – visual story teller- is more important than ever to visualize, analyze and document dramatic anthropogenic impacts on the planet. Remote-sensing technologies, an EO tool, can help us to better study our environment and reduce risk. Whether it be weather, climate, oceans, agriculture, forests, or natural disasters, EO is critical to ensure sustainable development, especially in agriculture. We are using this quantifiable global data with multiple stakeholders to improve agricultural productivity, land and water management. The space faring nations have

taken many initiatives to support the uptake of EO-derived information in sustainable development.

Environmental education (EE) using EO systems connects us to the world around us, teaching us about both natural and built environments. It raises awareness of issues impacting the environment upon which we all depend, as well as actions we can take to improve and sustain it. Whether we bring nature into the classroom, take students outside to learn, or find impromptu teachable moments on a nature walk with our families, EO has many benefits for youth, educators, schools, and communities. earth observation (EO) and geospatial information more attractive than ever for addressing poverty, monitoring environmental changes, and stimulating economic growth – among other objectives. It is especially valuable in developing countries, which often do not have adequate monitoring systems to track progress on the Sustainable Development Goals and other global and national goals.

The proposed session will focus on role of EO systems for education for sustainability, climate change in the current.

The session will have four speakers on the following topic:

- Earth a living system – visualizing from space for planet’s sustainability;
- Visual story teller’s perspective on application of Earth Observing systems;
- Linking Space to Sustainability – School Children’s perspective,
- Earth Observation and Environmental Educations – Global, Regional and local Perspective