

**Earth System Science Organisation (ESSO)  
Ministry of Earth Sciences (MoES)**

**Memorandum of Understanding between ESSO-MoES and UCAR,  
USA for Cooperation in the field of Earth System Science**

A Memorandum of Understanding (MoU) between the Earth System Science Organization-Ministry of Earth Sciences (ESSO-MoES) and the University Corporation for Atmospheric Research (UCAR), USA was signed in New Delhi on 24<sup>th</sup> September 2014, for cooperation in Earth System Sciences.

Weather and climate affects all our activities. This collaboration will bring together academia and application scientists to come together, essentially to transform 'knowledge' into a 'service.', Dr. Shailesh Nayak, Secretary, Ministry of Earth Sciences said.

The present MoU will provide a mechanism to jointly undertake research and developmental work to address Earth System Science issues of common concern through exchange of excellent scientific knowledge and technological knowhow existing in the two countries.

Collaborations are expected to include aircraft and radar technology, now casting of severe weather events, hydrometeorology, satellite data, oceanic and climate research, urban flooding as well as capacity building through scientific lectures and distance learning. A particularly important area is the long-range forecasting, which has extreme value to the Indian economy and caters to the need of the farmers with planting decisions and agricultural practices based on the projected intensity and timing of the next monsoon season.

“If we can help advance their forecast skill, it will save lives in India as well as improve our own forecasts for similar events at home,” said UCAR president Thomas Bogdan. “There are some important synergies that can benefit both countries.”

The MOU covers scientists from a range of institutions from India, to be coordinated and funded by the ESSO-Ministry of Earth Sciences with the scientists from UCAR’s 104 member universities, as well as NCAR (National Centre for Atmospheric Research). Through the MoU, the regional expertise available with Indian scientists will be complemented by the domain expertise available with UCAR.