



INDIRA MEGHAMADHANAMU - 2006  
Government of Andhra Pradesh



*IWWMT*  
**International Workshop  
On  
Weather Modification Technologies  
(Cloud Seeding)**

**18<sup>th</sup> – 20<sup>th</sup> January 2007,**

**ASC Auditorium –  
JNT University – Kukatpally  
Hyderabad, AP, India**





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*Weather Modification (Cloud Seeding) is the treatment of individual clouds or storm systems for the purpose of achieving a beneficial effect without harming people or the environment. Many countries like China, South Africa, Russia, Pakistan, United States, Canada, Australia, India etc. are attempting weather modification techniques for various purposes. The most common intended effects of weather modification include precipitation increase (rain and /or snow), fog dispersal (visibility improvement) and hail suppression.*

*Over its history of 50 years, modern weather modification experiments involved projects of various types in nearly 50 countries around the world. Some individual projects have been in operation nearly continuously for decades, with a few operating for nearly 50 years. Weather modification is being accepted as highly portable and flexible technology. It doesn't require construction of large, permanent and costly structure, such as dams or water conveyance systems. Project can be mobilized quickly and operations can be regulated, as water needs dictate or suspended very quickly, if hazardous weather conditions develop. India has long history of operations for weather modification particularly in the states of Maharashtra, Karnataka and Andhra Pradesh.*



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*The Government of AP has taken lead in promoting the activity and funded the operations in terms of application development and promotion of research. The workshop held at JNT University in 2005 strongly recommended continuing the cloud seeding operations in Andhra Pradesh. As such the Government, in its earnest desire to provide reasonable amount of water for augmentation of the upland and rain-fed area agriculture activities through rain fall enhancement, is carrying out the operations for the last 3 years.*

*The operations carried out during 2004-06 have yielded valuable data, significant results in terms of scope and identification of technologies for enhancement of rain fall, development of methods for validation, understanding the extent of influence zone and physics and chemistry of hygroscopic seeding and cloud dynamics.*

*Earlier a workshop on Hygroscopic seeding experimental results, physical processes and research needs was held in Mazatlan, Mexico under the sponsorship of the WMO, and US NCAR.*



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*Hon'ble Chief Minister of Andhra Pradesh Sri Y S Rajasekhara Reddy with all his commitment to the farmer and increase of agriculture activities in the state and with great vision and foresight ordered that the operations related to cloud seeding should be carried out for the next 5 years. This will enhance the scope for application and basic understanding of the cloud dynamics with specific reference and intent to application to the agro-climatic and agro-ecological zone. In this background an International Workshop on Weather Modification Technologies is planned (IWWMT).*

**Themes of the Workshop:-**

- *Physics and chemistry of warm cloud seeding techniques*
  - *In-situ measurements of cloud and aerosol properties*
    - *The Future for hygroscopic seeding*
  - *Cloud dynamics as applicable to tropical countries*
    - *Development of new Flare Technologies*
    - *Software for data evaluation*
- *Remote Sensing Satellite based VIS and NIR and TIR applications*
  - *GPS observations and GIS applications*

**Pre Workshop Tutorial on 16<sup>th</sup> and 17<sup>th</sup> January 2007**

**(Some of the Tutorials will run parallel)**

**T1 - Weather modification Technologies T2 - Geodesy and GPS**

**T3 - Satellite Meteorology, T4 - Principles of GIS**



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## Registration Fee

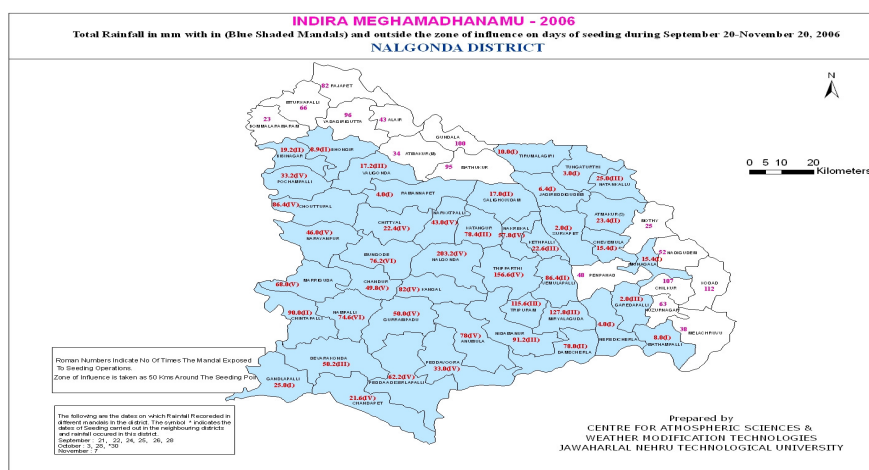
The registration fee for workshop is Rs.4,000/- (US \$ 200). The registration fee for each tutorials is Rs.1,000/- Payments to be made in the form of Demand Draft drawn in favor of **Coordinator CASWMT, JNTU Hyderabad.**

### *Invited Speakers of the Workshop*

Experts from WMO, UNESCAP, UNEP, UNESCO, FAO, UN University, USA, Europe, Australia, South Africa, China, Thailand, Kenya and India are expected to deliver invited lectures on various topics related to weather modification technologies. The following is illustrative list of some of the experts expected to participate along with others.

- *Dr. Roelof Bruintjes, NCAR, USA*
- *Dr. Ruiz Archemidies, Texas Weather Modification , USA*
- *Dr Graham Ezzy, Australian Met Society, Australia*
- *Dr. L J Ogalo, Drought monitoring cell, Member WMO, Kenya*
- *Dr. B Manickam ISRO, Bangalore*
- *Dr.K.J Ramesh DST, New Delhi*
- *Dr. Y S Ramakrishna, CRIDA, Hyderabad*
- *Dr. Daniel Rosenfeld, Hebrew University, Israel*

- *Dr P Pradeep Kumar, Uni. Of Pune, Pune*
- *Dr H R Hatwar, DDGM, IMD, New Delhi*
- *Mr Don Griffith, North American Weather, Consultants, USA*
- *Air Vice Marshall Dr. A. Tyagi, IAF, New Delhi*
- *Dr. V S Prakash, Drought Monitoring Cell, Karnataka*
- *Prof. D Narayana Rao , MST Radar Facility, Tirupati*
- *Wg.Cdr. KT Sebastian, M/S Agni Aviations, Bangalore*
- *Prof.G S Bhat, IISc Bangalore*
- *Dr. H S Ram Mohan CUSAT Cochin*
- *Dr K Roop Kumar, WMO, Geneva*
- *Prof. U C Mohanty, CAS, IIT Delhi*
- *Dr Tribuvan C S Sharma, Canada*
- *Dr. Amarnath Khatriya, Canada*
- *Dr. N Jayanthi IMD Pune*



**Chief Patron**

**Dr.Y.S.Rajasekhara Reddy,  
Hon'ble Chief Minister, Govt. of A.P.**

**Patrons**

**Sri.M.Mareppa,  
Hon'ble Minister for RSAD, LI and GW Govt. of A.P.  
and  
Sri. N.Raghuveera Reddy,  
Hon'ble Minister for Agriculture, Govt. of A.P.**

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**Co Chairman.**

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APC and Prin. Secretary RSAD Govt. of A.P.**

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Dr.E.Saibaba Reddy, DAP, JNT University  
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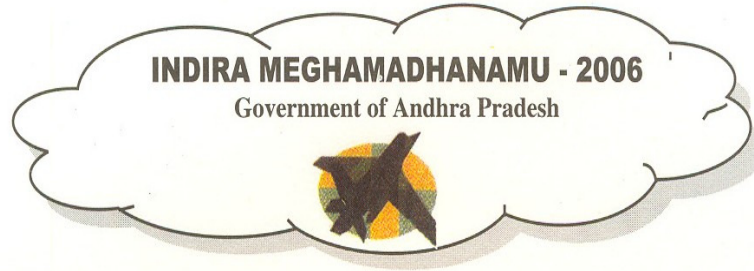
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**Prof. T.Shivaji Rao, GITAM Vishakapatnam**  
**Dr H R Hatwar, DDGM, IMD, New Delhi**  
**Dr Graham Ezzy, Australian Met Society, Australia**  
**Prof. R.R.Kelkar, Univ. of Pune, Pune**  
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### **Address for Correspondence**

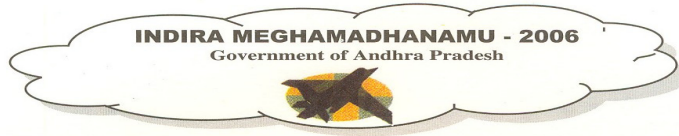
• **Dr. I.V.Muralikrishna ,**  
Director R&D and Coordinator CAS WMT  
**Organizing Secretary, IWWMT LOC**

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Convenor, IWWMT LOC  
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*CENTRE FOR ATMOSPHERIC SCIENCES AND  
WEATHER MODIFICATION TECHNOLOGIES*  
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**AP, India**



**Registration Form**  
**International Workshop on Weather**  
**Modification Technologies (Cloud**  
**Seeding) IWWMT-18-20 January 2007,**  
**ASC Auditorium-JNTU, Kukatpally-**  
**Hyderabad**

**Name :**

**Designation :**

**Organization and Full Address and Pin code**

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**Registration fee DD/Cheque No.:**

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**Amount**

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**in favor of “coordinator, CASWMT, JNTU.Hyderabad”**

**( spot Regsitratio facility available)**

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[tsvallimani@yahoo.com](mailto:tsvallimani@yahoo.com) or

Fax to +91-(040) 2305 3105 to organizing secretary, IWWMT, JNTU,  
Kukatpally, Hyderabad 500085, AP, India