

## Targeted Training Activity (TTA), February 9-20, 2015, IITM, Pashan, Pune – 08

IITM in association with International Centre for Theoretical Physics (ICTP), Trieste, Italy and World Meteorological Organization (WMO) is organizing a Targeted Training Activity on "Modelling and Prediction of Asian Monsoons: Improving Physical Processes" during 9-20 February 2015 at IITM.

<b>ICTP-ESSO-IITM-WMO TTA 9-20<sup>th</sup> February, 2015</b>										
Date	9:00-10:00	10:00-11:00	Tea Break 11:00- 11:30	11:30-12:30	12:30-13:30	Lunch Break 13:30- 14:30	14:30- 15:30	15:30- 16:30	Tea Break 16:30- 17:00	17:00:18:00
9/Feb./2015	<b>Inauguration</b>	Prof. J. Shukla		Dr. R. Krishnan	Prof. Valerio		<b>Hands on Training (Rajib, Gibies, Phani and Sabeer)</b>			
10/Feb./2015	Dr. Suryachandra Rao	Prof. O.P.Sharma		Dr. P. Mukhopadhyay	Dr. P. Mukhopadhyay		<b>Hands on Training (Rajib, Gibies, Phani and Sabeer)</b>			
11/Feb./2015	Prof. O.P Sharma	Prof. O.P.Sharma		Dr. S. Halder	Dr. P. Mukhopadhyay		<b>Hands on Training (Rajib, Gibies, Phani and Sabeer)</b>			
12/Feb./2015	Prof. B.N.Goswami	Dr. S. Halder		Prof. O.P. Sharma	Dr. Fred Kucharski		<b>Hands on Training (Rajib, Gibies, Phani and Sabeer)</b>			
13/Feb./2015	Prof. B.N.Goswami	Dr. S. Halder		Prof. Suneet Dwivedi	Prof. Suneet Dwivedi		<b>Hands on Training (Rajib, Gibies, Phani and Sabeer)</b>			
14/Feb./2015	<b>Holiday</b>									
15/Feb./2015										
16/Feb./2015	Dr. M. Rajeevan	Prof. Raghu Murtugudde		Prof. Boualem Khouider	Prof. Brain Mapes		Dr. Boualem Khouider	<b>Hands on Training (Rajib, Gibies, and Phani)</b>		
17/Feb./2015	Prof. Brain Mapes	Prof. Mike Wallace		Prof. Mike Wallace	Prof. Raghu Murtugudde		Prof. Raghu Murtugudde	Prof. D. Sengupta	Dr. Andrew Turner	
18/Feb./2015	<b>Monsoon Mission Review Meeting Lectures</b>									
19/Feb./2015										
20/Feb./2015										

Inaugural function

09:00-09:30: Arrival of Guests and Registration of TTA Participants

09:30-10:00: Inaugural Function

Welcome Address by **Dr. R.Krishnan Director, IITM**

Brief Introduction of TTA by **Prof. Shukla**

Remarks by **Dr. Rupa Kumar, WMO**

Vote of Thanks by Suryachandra A. Rao

**09/Feb./2015**

**Prof. J. Shukla:** Dynamical Seasonal Prediction: Evolution of an idea from DERF to TOGA to Operational Prediction.

**Dr. R. Krishnan:** IITM Earth System Modelling

**Prof. Valerio Lucarini:** Analysis of CMIP3 and CMIP5 models performance in representing the hydrological cycle in major South and South-East Asian river basins: present climate and future climate projections.

**10/Feb./2015**

**Dr. Suryachandra Rao:** Impact of high resolution Coupled Modelling on simulation and prediction of Indian Summer Monsoon.

**Prof. O.P. Sharma (3 Lectures 10-12, Feb, 2015):** Heat-induced tropical circulations, I, II, III

**Dr. P. Mukhopadhyay (3 Lectures, 11-13<sup>th</sup> Feb. 2015)**

1. Basics of Convective parameterization and different convective closures
2. Latest techniques in improving convective parameterizations
3. The co-operation and competition between sub-grid scale and grid scale cloud and convective parameterization in climate model

**Prof. B.N.Goswami (2 Lectures, 12-13<sup>th</sup> Feb. 2015)**

Predictability of Monsoon (2 Lectures, 12-13, Feb, 2015)

1. Seasonal Prediction
2. Extended Range Prediction of Active/Break Cycles

**Prof. Suneet Dwivedi:** "High-Resolution Northern Indian Ocean State Estimation using 4D-Var"

**Dr. M. Rajeevan:** Cloud-radiation interaction in the observations and models

**Prof. Raghu Murtugudde (3 Lectures, 16-17, Feb, 2015)**

1. Modeling the Arabian Sea to Improve Monsoon Prediction Skill
2. Who leads when El Nino dances with the monsoon?
3. TBD

**Dr. Andrew Turner (1 Lecture, 17<sup>th</sup> Feb. 2015)**

**Prof. Brain Mapes (16<sup>th</sup> -17<sup>th</sup> Feb. 2015, 2 Lectures)**

**Prof. Mike Wallace (2 lectures 17<sup>th</sup> Feb, 2015)**

**Dr. Boualem Khouider (2 Lectures, 16-17<sup>th</sup>, Feb. 2015)**