ASET Colloquium 500th in the series

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Dr. Eswar Reddy did his M.Sc. (1988-90) from Sri Venkateswara University, Tirupati and Ph.D. (1990-96) from the Indian Institute of Astrophysics, Bengaluru. Thereafter, he moved to the United States and spent four years at the University of Texas, Austin and two years at Valparaiso University, Indiana. He is interested in understanding the nucelosythesis aspects in stars and formation, and evolution scenarios of the Galaxy using chemical tagging of stars in the solar neighbourhood. In 2003, he returned to join IIA, Bengaluru, as a regular faculty member. Currently, he is an Associate Professor at IIA. For the last 6 years he has been the national coordinator for India TMT efforts and later (2012 - to present) the **Programme Director of India TMT** Coordination Center set up jointly by DST and DAE.

The Thirty Meter Telescope: A new window to the universe Dr. B. Eswar Reddy, Programme Director India TMT Coordination Center,

Indian Institute of Astrophysics, Bengaluru

International astronomy groups have planned to build the next generation optical and infrared telescopes with primary mirror sizes ranging from 24-m to 40-m. National Institutes and organizations in the USA, Japan, Canada, China, and India joined together to build the Thirty Meter Telescope (TMT) International Observatory (TIO) atop Mauna Kea, a dormant volcanic mountain, Hawaii, USA, which is one of the best astronomical sites in the world. TMT primary consists of 492 segments each measuring 1.44-m diameter. India's participation in the project is mostly through in-kind contribution by developing some of the key systems of the project. In this talk, the speaker will briefly describe efforts leading to Indian membership in the project including technology demonstration and current status of the project.

For details: 22782368, 22782500, email: aset@tifr.res.in, pro@tifr.res.in

ASET is an acronym for Advances in Science, Engineering and Technology.

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Friday, March 13 2015 at 4 p.m. Main Lecture Theatre AG 66, TIFR, Homi Bhabha Road, Navy Nagar, Mumbai 400005



