



**TIFR Centre for Interdisciplinary Sciences,  
Narsingi, Hyderabad 500075**

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**Seminar**

**A Random walk through TSUNAMI: An attempt to  
establish synergy between science, Art and Poetry**

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**Abstract:** A major earthquake if occurs under the ocean may actuate *Tsunami*. It is also known as seismic sea wave. The cause effect relationship is earthquake or submarine volcanism leading to the collapse or uplift of the part of the ocean floor by an underwater landslide. The *Tsunami* propagates as a wave throughout the ocean basin with a period in the range of 15 – 30 minutes. The velocity ( $v$ ) of propagation of the wave is dependent on the water depth ( $d$ ) and acceleration due to gravity ( $g$ ). These three parameters are related by the equation  $v = \sqrt{gd}$ . The height of the wave increases as it approaches the shallower water near the coastal region whereas in the open ocean it is small so much so that it is not appreciably felt by the ships. The talk will start with a well known artist's view of a great sea wave followed by the scientific facts on earthquake and *Tsunami*. The discussion will be with the back drop of the Indonesian earthquake of 2004 known to scientific community as **Sumatra–Andaman earthquake** giving rise to *Tsunami* followed by a poem depicting the effect of disaster on coastal population and the struggle to start life anew after the disastrous event.

**Date: Wednesday, January 30<sup>th</sup> 2013**

**Time: 03:00 PM (Tea/Coffee at 02:45PM)**

**Venue: Conference Hall, TCIS**

***All are cordially invited***