



The 2009 Einstein Lecture

**The Powerhouse Museum
And
The Australian Institute of Physics (NSW) present:**

6pm, Monday August 24th 2009, Powerhouse Museum, 500 Harris Street, Ultimo
Entrance is FREE

Einstein: Why is it So?

Dr Roger Rassool, University of Melbourne.

One of Einstein's most famous contributions to science was his theory of special relativity. You may be familiar with seemingly bizarre statements such as: clocks moving at high speed tick more slowly than those fixed on the wall, and fast moving trains are shorter than those waiting at a station.

This year, join us on a journey to make sense of some of the surprising phenomena seen in every day objects: hover bikes, floating apples, bottomless pits, spontaneous combustion, glue made out thin air and maybe even some time dilation in action! Dr Roger and the gang will present a spectacular science and laser show.



With special guest: Lawrence Krauss

Internationally renowned theoretical physicist, Krauss' studies include the early universe, the nature of dark matter, general relativity and neutrino astrophysics, exploring the origin of the Universe to the origins of human culture and cognition.

Einstein's Biggest Blunder? A Cosmic Mystery Story

Over the past decade, new observations have led to a revolution in cosmology. The standard model of cosmology built up over a 20-year period until the early 1990s is now dead.

Its replacement may be far more bizarre, leading to the biggest mystery in modern physics. I will close by briefly describing possible implications for our understanding of nature, and for life, of this astounding new result.



**For more information about this event please direct your enquiries to Dr Frederick Osman on:
fred_osman@exemail.com.au**

