



Scientific Revolutions of the 21st Century

by Jonathan Tennenbaum

Tuesday, September 29, 8 am – 12 noon

I. Science: A Revolutionary Perspective

- What is science? Is science just a collection of facts and formulas? Or is science more than that?
- The relationship between science, philosophy, poetry and music.
- The “invisible crisis” in present-day science and education.
- What is a scientific revolution?
- Historical examples of scientific revolutions, from Kepler to the discovery of nuclear energy.
- Example of a possible new scientific revolution today (with a demonstration experiment).

II. Breakthrough Areas for Science in the 21st Century:

- 20 “Big Questions” in Physics, Astronomy, Biology and the Science of the Human Mind, leading to future scientific and technological revolutions.
- Who will answer them? Is it possible to learn how to make creative discoveries?

III. Nuclear Energy and the Science of the Future