



Prof. Nigel Mason

He is a senior faculty at the Open University at Milton Keynes, UK and is well-known for his work on various aspects of atomic and molecular physics and its application to wide ranging areas like astrochemistry, environmental and atmospheric science, plasma physics and radiation chemistry. He is keenly interested in the fundamental interactions between electrons, photons and ions with molecular species and the study of the subsequent physical chemistry that such processes may induce in local media. He has been the chair of various European collaborative research programmes like “The Chemical Cosmos”, “Electron Controlled Chemical Lithography”, “Electron induced Processing at the Molecular level”, “Electron and Positron Induced Chemistry” and “Radiation damage induced in biomolecules”. He visits India regularly and actively collaborates with a large number of Indian scientists.

Light and the electrons it generates can lead to a range of physical and chemical phenomena with applications ranging from cancer therapy to nanotechnology while in nature light and electrons combine to generate spectacular phenomena such as the aurora both on Earth and on other planets. In this talk he will discuss how light and electrons are integrated with one another and how this interconnection is allowing new technologies to be developed and is providing a greater understanding of our planet and the universe.

Shining Light on Electrons



Nigel Mason
Open University, UK
On how the interconnection between light and electrons is allowing the development of new technologies and is providing a greater understanding of our planet and the universe

Thursday November 19, 2015 at 5 p.m.
Homi Bhabha Auditorium, TIFR
1 – Homi Bhabha Road, Colaba, Mumbai 400005