

**Peter Blake****Managing Director
Graphene Industries Ltd**

Abstract: "Graphene electronics: properties & applications"

When one writes with a pencil, thin flakes of graphite are left on the surface. Some of them are only one atom thick and can be viewed as individual atomic planes pulled out from bulk graphite. This strictly two dimensional material, called graphene, was presumed not to exist in the free state and remained undiscovered until recently.

This talk will explore some of the unusual electronic and optical properties of graphene that make it such a promising candidate for future applications.

Peter received a Masters Degree in Physics (MPhys) from the University of Manchester in 2003. For the last 5 years, he has been exploring the properties and applications of graphene as a PhD student and post doc at the Manchester Centre for Mesoscience and Nanotechnology. In 2007, he co-founded Graphene Industries, a University of Manchester spin-out company where he is currently working as Managing Director.