

Macro and Ultra-Macro Photography: From Phone Camera to Microscope Lens

Steve Campbell



Biography

Steve Campbell obtained a degree in Cell Biology at the University of Glasgow and then a Ph.D. in Developmental Biology at the University of Edinburgh. After 15 years of post-doctoral research in Manchester and Oxford he became a lecturer in the faculty of medicine at the University of Glasgow. In all of that time he spent much time undertaking photo microscopy of all sorts and taught courses in image processing. He also pursued photography as a hobby. In 2005 he took voluntary redundancy to become a professional portrait photographer. Following the decline in that trade he has more recently worked in the water industry. When not taking photographs he writes 2 blogs on photography and politics. He is presently writing a philosophical book which explores the subject of 'Truth'.

Abstract

The recent revolution in digital photography and home computing has made it possible for each of us to study nature more closely by taking close up and ultra-close up photographs.

This talk will illustrate what can be accomplished with a smartphone or small cameras and also show what can be achieved with more complex equipment and computer processing. The scale of things photographed in close-up by the amateur can now range in size from large insects to the tiny bumps on the surface of a pollen grain. Three themes will be used to illustrate the way in which modern macro photography can help us to investigate the world around us: reproduction in flowering plants, insect anatomy and feeding behaviour and the branching and looping patterns in the human vascular network.



Web sites: <http://scotimages.me.uk/> and <http://scotimages.net/index.htm>

Designing the Queen's Baton: from concept to production - the process of design

William Mitchell



Biography

William Mitchell was born and educated in Glasgow, gaining a degree in Product Design from Glasgow School of Art in 1996. His first job after graduating exposed him to the world of Italian household goods and furniture and also gave him an opportunity to develop a piece of furniture he originally designed in Art School. In 1999 he started working with his father Alec Mitchell in a small engineering consultancy, which not only helped develop his understanding of engineering principals, but also introduced skills in client and financial management. Since 2004, William has been a director at 4c Design Ltd, a Glasgow based product design engineering consultancy.

Abstract

In his talk, William will introduce the audience to the design consultancy which he runs with his business partner (and founder) Robin Smith and how the company has adapted and changed to suit the Scottish market, including some of the projects they have worked on. The talk will also cover the design thinking behind the creation of the Commonwealth Games Queen's Baton, commissioned for the Glasgow games in 2014. The subject should appeal to anyone with an interest in design, the future of innovation in Scotland and of course the design of the Queen's Baton.