

• GOOD PICTURE 2017 – “Image Enrichment”

Following the success of the previous fourteen **Good Picture Symposia**, the **Imaging Science Group** of the **Royal Photographic Society** is organising another in its series of tutorial seminars, open to all, on selected technical aspects of **Digital Imaging**. The aim of these lectures and discussions is to provide imaging practitioners, keen amateurs and students with insights into Digital Imaging and provide some tools and guidelines for assessing cameras and improving output.

Location: University of Westminster, Regent Street, London

Date: Saturday 9th December 2017, 10am – 4pm

(Note: There is full disabled access to this meeting)

Charges: £74.00 Concessions: £42.00 (Students, Retired, Un-employed)
Includes buffet lunch plus morning and afternoon tea, coffee & biscuits

(Continuing Professional Development documentation will be supplied if required)

Contact: Apply Directly to the Organiser: Dr. Mike Christianson
Address: 4, Greenfield End, Chalfont St Peter, Bucks., SL9 0DW
E-mail: pandm.christianson@gmail.com (please note recent change of e-mail address)
Phone: 01753 890 480

Programme

Dr Tony Kaye ASIS FRPS

Independent Imaging Consultant

The internet contains much information over the choice of colour spaces. Some articles advocate wide gamut spaces, others stick with sRGB. In this talk we will examine the gamut that various devices can reproduce and compare them to the gamut of a number of popular colour spaces. This talk, in conjunction with the following talk by Rex Waygood, will enable photographers to choose what are the most appropriate colour spaces for their work.

A Survey of Colour Gamuts

Rex Waygood BSc MSc

RPS Digital Imaging Group

The internet has a large amount of information about colour space. Quite a lot of the internet information is myth and a repeat of what was said earlier on the web without good evidence. I set about to discover what colour space I should use to encompass the gamut of my “typical” images. On the way I discovered a lot about colour and had a result which surprised me.

Rex’s Gamut - An Exploration of Colour

Matt Cass ABIPP ARPS MCSFS MIMI

Acuity Forensics Ltd. and Nautical Archaeology Society

Not everyone can dive or wants to dive, using photography, Photogrammetry, and 3D modelling with today's powerful computer graphics can produce models to explore for those not able to see the sights for themselves. This is especially true in archaeology and crime scenes when the photographs may be the only data gathered before the artefacts or structure is lost for ever. So the ability to generate models and then either computer aided swim or walk through environments or 3D printed models can be invaluable.

Photogrammetry and 3D Modelling Underwater

Graham Relf FRAS

Tynemouth Photographic Society

Faint objects in the night sky can be photographed using ordinary digital cameras but it is necessary to stack many high-ISO images. This raises several interesting problems, such how to detect and align star patterns against variable backgrounds, allowing for lens distortion, and how to use (and save) images deeper than 16 bits per colour. I will describe how I tackled several such problems and achieved successful results.

Aspects of Software Design for Deep-Sky Astrophotography

Dr. Graeme Awcock

School of Environment & Technology, University of Brighton

Phoebe is an enigmatic moon of Saturn with a retrograde orbit in an unusual plane, so it is an intriguing object with uncertain origins. Until the targeted flyby as part of the Cassini-Solstice mission to Saturn in June 2004 the best available image of this heavenly body had been captured by the Voyager mission, with a spatial resolution of approximately 2km /pixel. The Cassini spacecraft flew within 2000 km of Phoebe and brought its ISS and VIMS instruments to bear, achieving images with 30m spatial resolution and spectral information about surface composition, respectively. The presentation will review this case study of planetary remote sensing and shed some light on the Phoebe's origins.

Photographing Phoebe - A Case Study In Planetary Remote Sensing

Dr John Allen ASIS FRPS

Optics

Microvascular Diagnostics, Northern Medical Physics and Clinical Engineering, Freeman Hospital, Newcastle upon Tyne

The microvasculature presents a particular challenge in physiological measurement because blood vessel structure is spatially inhomogeneous and tissue perfusion can exhibit high variability over time. This talk will overview the state-of-the-art in microvascular imaging and vascular optics, key current medical applications, and also highlight opportunities for research and development in this specialist area of clinical measurement.

Explorations in Microvascular Imaging and Vascular

Hugh Turvey HonFRPS FRSA

Artist in Residence, The British Institute of Radiology

Experimentalist and photographer, Hugh Turvey's work is a fascinating hybrid of art, science, graphic design and photography. He introduces us to a vision of transparency in a “smoke and mirrors” world of spin and media manipulation. He is fascinated by what is hidden and, focusing on the spaces between, his Xograms make the everyday appear uncommon, debunking the myth that beauty is only skin deep.

An X-Ray Vision

