

GOOD PICTURE 2024 – ELEMENTS OF IMAGING

Following the success of our previous nineteen **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 **Imaging**. The aim of these lectures and discussions is to provide imaging practitioners, keen amateurs and students with insights into the broad field of Imaging in all its aspects and to provide some tools and guidelines for improving output.

Location: **University of Westminster, Regent Street, London**

Date: **Saturday 7th December 2024, 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**

E-mail: **pandm.christianson@gmail.com**

Phone: **07814 864 921**

Programme

Adrian Davies MSc ARPS

Freelance Photographer, Lecturer and Author

In a previous talk at this event Adrian showed how reflected and fluorescence UV photography could reveal invisible markings and signals on flowers and other plants, to attract pollinators for example. In this presentation Adrian will show how a range of photographic techniques can reveal various plant behaviours such as spore and seed dispersal, plant growth and movement.

Prof Toby Breckon

Department of Computer Science, Durham University

It appears autonomous vehicles (driverless cars) may become one of the most significant changes to the way we travel in over 100 years. Central to this fast-moving technological development is the use of imaging technologies – *how can vehicles 'see' the world around them?* and image understanding – *how can vehicles understand imagery of the world around them?* Advances in this area present many opportunities and implications for our daily lives. This talk will explore current trends in on-vehicle sensing, outline the underlying scientific advances that underpin driverless car technology and also some research challenges that remain to be addressed including research work at Durham on automotive visual sensing. More broadly, the talk will discuss wider technological developments in the field and the potential impacts of future driverless vehicles appearing on our roads and beyond.

Dr Özgün Özer

Faculty of Science and Engineering, University of Manchester

Event – based imaging is a novel approach to imaging that focuses on capturing the change rather than the objects themselves. Instead of collecting light with fixed intervals, each pixel registers the change in the illumination. In this sense, it represents a different property of human vision and opens new possibilities for artists and researchers.

Chris Harvey

Technical Director, Viewport3 Ltd.

A camera is a powerful tool, with its technology evolving significantly over the decades, though the core principle of image capture stays unchanged. This presentation explores the cutting-edge field of 3D photogrammetry, emphasising its applications across diverse and intriguing scenarios. We will examine case studies from a medieval painted ceiling hidden in a cattle shed in Scotland to WWII submarines resting thousands of meters beneath the Pacific Ocean. The discussion will highlight how digital images are integral to the 3D photogrammetry pipeline, demonstrating the transformative impact of this technology.

Richard Waltham

EMI (Retired)

Recovering a first-series M&W episode brought sunshine and joy by using micro-focus CT scanning. Luckily two top dental researchers stepped in to help with 0.02mm spatial resolution - many times a hospital CT-scanner. Archimedes died 2,236 years ago but lives on! Was there a Eureka moment in CT? Technology evolved by his workshop may be in an archaeological gear-wheel video recorder of planets and eclipses - the Antikythera mechanism – studied in the 2000s using micro-focus CT. Medical based hospital CT images using the free open-source imageJ software will also be discussed. Can imageJ help your photos?

Dr Michael Jackson

NHS Lothian, British Society for the History of Radiology

In the era of deepfakes, the ability of images (digital or otherwise) to mislead and misrepresent is well recognised. The scientific discipline of medical imaging might be viewed as exempt from such concerns, but while intentional deception may be absent, both the construction and interpretation of medical images are more subjective than one would suppose. Drawing on varied examples from the history of art alongside radiology examinations, this talk will examine the choices made in producing an image and their implications.

Dr Alan Hodgson ASIS FRPS

Alan Hodgson Consulting Ltd

Illuminated pinholes make great test objects for camera systems. Building on 2 past topics shown at Good Picture this presentation will show you how to make and use this yourself and generate some interesting images into the bargain.

Photographing Plant Behaviour

Imaging Technologies Within Driverless Cars -

The Technology Being Driven to a Street Near You

Event - Based Imaging

Technical 3D Photogrammetry, an Exploration and Discussion

Every Picture Tells a Story: CT Scanning from Eureka to Morecombe and Wise

Art, Artefact and Arteriograms

DIY Pinhole Testing Equipment for Cameras

