

Surrey u3a Network Study Day

TALKS ON SCIENCE

Andrew Hanson & Dr Kathryn Harkup



Refraction – A rainbow

Andrew Dunn CC BY-SA 2.0

Visible spectrum



*Sources of colour besides
Pigments & Dyes*



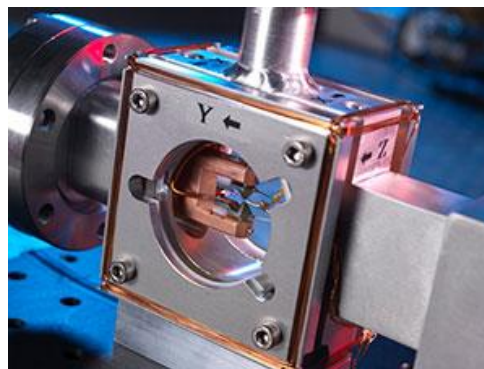
*Thin film interference –
Butterfly wing*

Charles J Parker, CC BY 4.0



Diffraction – A CD

Christophe.Finot CC BY-SA 3.0

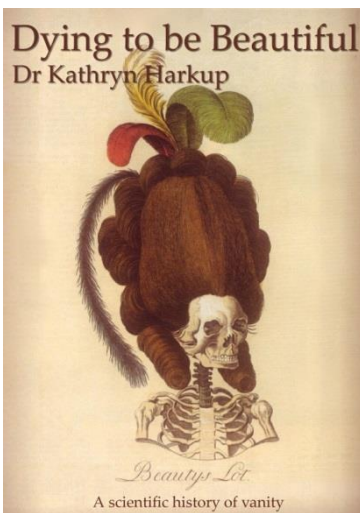


*To produce a clock waveform, single ions
of strontium or ytterbium, held almost
stationary, react with a microwave
beam with a stability of 1 in 10¹⁸*

NPL is a leader in this field



*Discharge in sodium gas
public domain.*

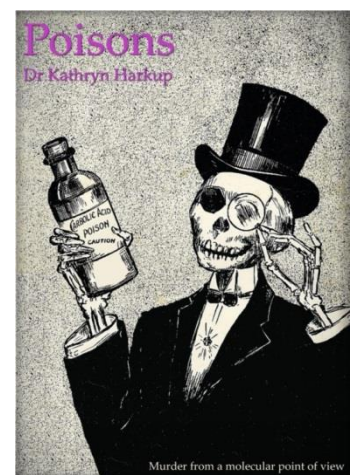


*Dying to be Beautiful
Dr Kathryn Harkup*

*Beauty's Lot
A scientific history of vanity*



Fly agaric



*Poisons
Dr Kathryn Harkup*

Murder from a molecular point of view

Unattributed pictures were
supplied by the speakers

Menuhin Hall

Friday 20th May 2022