

#### **Surrey Network**

#### Science Day - Rainforests/Evolution & Music/Colour

A Study Day on Friday 21st June 2024 at The Menuhin Hall, Stoke d'Abernon

#### Speakers – Dr David T Jones & Andrew Hanson MBE

- 9.30 Registration
- 10.00 **How Tropical Rainforests Work -** Tropical rainforests are the most biologically diverse and complex habitats on the planet. The talk will outline the main ecological processes that keep the forests functioning and will describe the current threats to their long-term survival.
- 11.00 Coffee / Tea
- 11.30 From Primordial Soups to Primates in Suits: The Evolution of All Life on Earth Life evolved more than 3.5 billion years ago, and today humans share the planet with around twelve million other species. The talk tells the story of the evolution of all life on earth in one hour; the origins of life in the oceans, the evolution of millions of species, the extinction of millions more, and the rise to dominance of Homo sapiens.
- 12.30 Lunch Bring-Your-Own Tea / Coffee available
- 1.30 How do you use Electronics to make Music? Few people realise how simple the building blocks of electronics are, so we shall start with an accessible description of the form and function of electronics. We will then romp through one hundred years of evolution in electronic musical instruments with crazy stories about technologies and the people that developed them. There will be sounds odd and pleasing.
- 2.30 Tea / Coffee
- 3.00 What is Colour and how do we Measure it? We understand colour to be a sensation that is used to inform, but how does it work and how do make it to work for us? Artists, designers and PR agencies use colour, harnessing much hidden science to enable their endeavours. This talk will outline the uniquely human window into the spectrum of colours we can see. There will be astounding demonstrations that will have you questioning the nature of reality.
- 4.00 Departure

To book by bank transfer. Make a bank transfer for £12 (or £15 for a guest) to **Surrey u3a Network** HSBC Account No 11519018 Sort Code 40-27-07, Event Ref. Jun24, then send an email with the booking information below to <a href="mailto:surreyu3astudyday@outlook.com">surreyu3astudyday@outlook.com</a>. Confirmation by email.

To book by post. Send the booking form with a cheque for £12 (or £15 for a guest) payable to **Surrey u3a Network** to Denise Dobbs – u3a, 5 Aldridge Rise, New Malden KT3 5RJ, Phone O7964 798791. Please supply an email address or SAE for confirmation.

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Science Day Member £12		21 <sup>st</sup> June 2024
Please Tick - Attend Hall ☐ or Virtually ☐; Email ☐ or SAE ☐; Cheque ☐ or BankTrsf ☐.		
Title First Name	Surname	. <u>Name</u> of u3a
House Number/Name	Post Code	Phone
E-mail Address		
If you need disabled parking, tick and give a car registration number,,,,,,,,,,,,		
If you need a wheelchair space in the hall, tick $\square$ or a step-free seat, tick $\square$ .		
If you would like to receive details about future study days by email, please tick here .		

#### **Biographical Information about our Speakers**

**David Jones** works at the Natural History Museum in London, and lectures at Imperial College. He is an entomologist specialising in rainforest insects and soil ecology. He has done fieldwork in eighteen countries including Indonesia, Papua New Guinea, Gabon, Madagascar and French Guiana. He has published more than fifty research articles in scientific books and journals. David is a multi-award-winning public speaker, and frequent after-dinner speaker. He has won the annual Toastmasters' UK & Ireland Impromptu Speech championship five times.

Andrew Hanson, MBE BSc (Hons) CPhys is the Outreach Manager at the National Physical Laboratory (NPL) and he functions in both scientific and artistic fields. Currently he manages interactions of hundreds of scientists and engineers with the general public (especially younger people) with the aim of enthusing the next generation to consider careers in science and technology. He took his undergraduate degree at Lancaster in Applied Physics, and whilst his profession has centred on physics – building machines to measure optical properties of materials including the shininess of cats, and light sources including display systems – he has a parallel life of artistic pursuits including award winning film making. He discounts notions of arts versus science as he feels both endeavours involve research, developing methods and creating things to be proud of.

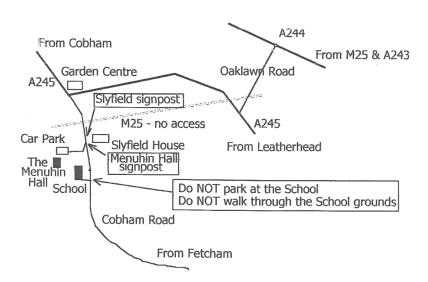
#### **Location & Contact Details for Study Day**

The Menuhin Hall, Cobham Road, Stoke d'Abernon, Surrey KT11 3QQ

Map Ref: TQ 132 579 on Landranger 187 & Explorer 146

Telephone 07763 805046 (Emergency - On-Day-Only) or Menuhin Hall Office 08700 842020

There is a Garden Centre (01932 862530), about 800 metres to the north of the Menuhin Hall where light lunches are available. Reservations are not required.



The Menuhin School was founded in 1962 in London and moved to its present site in 1964. It has around eighty pupils learning to play stringed instruments including piano and is financed, in part, by the DfE. Lord Menuhin was born in New York on 22<sup>nd</sup> April 1916 and died on 12<sup>th</sup> March 1999 in Berlin. His parents had come from Russia. His first public concert was in March 1924 and his first in Europe, in Paris, in 1927. His performance of Elgar's Violin Concerto was recorded at the Abbey Road Studios in 1932. The Hall, designed by Mark Foley, was conceived as a memorial to Yehudi and was handed over to the school on 5<sup>th</sup> August 2005. The official opening was on 7<sup>th</sup> January 2006. Yehudi is buried by the stone pillar in front of the Hall. Nearby is an oak which he planted on his 80<sup>th</sup> birthday. The Hall was first used for a Surrey Network Study Day on 14<sup>th</sup> October 2005.



#### **Surrey Network**

#### Study Days at the Menuhin Hall

**Surrey Network Study Days -** After an eighteen-month gap, study days at The Menuhin Hall resumed in September 2021. We welcome members to our study days in the hall, as in the past, while also making it possible to view the study days remotely.

Advertising & Booking - The practice of applying by post or by email will continue, with booking responses being sent as members chose, while payment can be made by cheque or bank transfer. We have discussed using on-line booking and consider that this is our likely next step, but the workload in setting up the programme for 2024 is our first priority. We advertise the study days with full details and booking forms on our website - <a href="http://u3asites.org.uk/surreyu3anetwork/">http://u3asites.org.uk/surreyu3anetwork/</a> and circulate the information electronically to all u3as in Surrey Network and surrounding areas. We also electronically circulate a poster suitable for advertising the future programme on display boards or websites.

**Nut Allergies -** The Menuhin School has pupils who have an allergic reaction to nuts and the staff have taken the decision to make the school and the Menuhin Hall a nut-free environment. Please ensure that your lunch does not contain any trace of nuts.

**Disabled Parking -** There are six spaces behind the hall and there are more in the main car park. If you have a blue badge and need level access to the hall, then tick Disabled Parking on the booking slip; you will then be allocated a space at the back of the hall and sent a permit. There is a drop-off space where disabled members have level access to the hall.

**Wheelchair Spaces -** If you need a seat removed in the hall to accommodate a wheelchair then tick Wheelchair on the booking slip.

**Support for Network Committee** – The study days have been running successfully for almost twenty years. New volunteers with ideas for the future programme and the commitment to help run our study days will be made very welcome. Our website is based on the u3a software Site Builder, and as a transfer to a new system is required in 2024, help with the website would be very welcome. Please contact Surrey Network Chairman, Caroline Sawers, on 01483 560590 with offers of help.

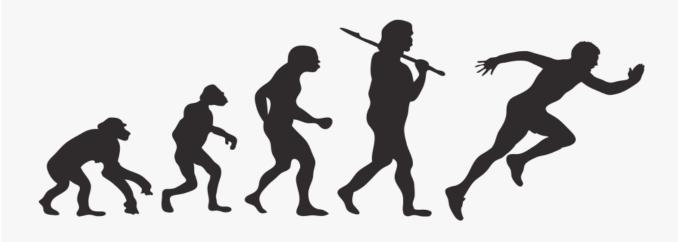
## Surrey u3a Network Study Day

### The Evolution of All Life on Earth Science & Technology of Music & Colour



Speakers –
Dr David T Jones,
Natural History Museum &
Andrew Hanson MBE,
National Physical Laboratory





# The Menuhin Hall, Stoke d'Abernon Friday 21<sup>st</sup> June 2024 9.30am Registration - tea and coffee provided Member £12 Guest £15

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