

SPRING STAR PROGRAMME 2023

All meetings at 2-00pm in the Keyworth Methodist Church

Monday 2nd January 2023:

THERE WILL BE NO MEETING IN JANUARY – THIS IS BECAUSE THE FIRST MONDAY (2nd JAN) IS A SUBSTITUTE HOLIDAY FOR SUNDAY 1st JANUARY – NEW YEAR’S DAY

Monday 6th February 2023:

Professor James Miller – Emeritus Professor of Analytical Chemistry – *Loughborough University* will be giving a talk with the title:

“Fascinating Forensic Chemistry”

Extract

Professor James Miller will outline the importance of Forensic Chemistry in our everyday lives by, among other uses, helping the authorities to detect and deter criminals.

It helps us to feel that we live in a more secure society by using some amazing scientific processes. So it is probably true to say that it is one of the areas of science that is unequivocally good.

James will outline some of the differences in how we perceive Forensic Science as portrayed in TV Drama Programmes like “*Silent Witness*” to that of how these processes actually work in the real world.

This activity can involve many scientists in many other specialist fields but it can be shown how all these different disciplines can combine to produce some very accurate results. Scientists in the field of Forensic Chemistry can often find themselves becoming something of a polymath in order to find answers to very challenging questions.

Monday 6th March 2023:

Professor David Cook – Head of Division of Microbiology, Brewing & Biotechnology at *University of Nottingham* will be giving a talk with the title:

“The Research Behind your Pint: A University Perspective”

Extract

This talk is a MUST for beer-lovers and for anyone who has ever tried to make beer themselves.

David will talk a little about the history of brewing and explain his role at Nottingham University. He will then go on to introduce his team in the department.

He will give a loose definition of what we mean by “BEER” and he will go on to discuss the diversity of different types of “BEER” and show why we need research into brewing and the brewing processes, he will identify many different types of beer.

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He will emphasise the way brewers try to ensure stability in their product to give a consistent quality to the flavour.

This talk was given to West Bridgford u3a "Science for Everyone Group" in February 2021.

Monday 3rd April 2023:

Professor Christopher Rochelle of *The British Geological Survey* will be giving a talk with the title:

"Deep geothermal fluids: From the hottest of the hot to dissolved resources"

Extract

We stand at the cusp of a revolution in deep geothermal exploitation, as technological improvements enable economic exploitation of hot waters from great depths in areas of lower thermal gradient, and allow access to super-hot resources near magmatic bodies.

Maximising the value of produced fluids through a 'cascade of uses' will also help drive economic success. In this talk I will give a brief summary of current geothermal and lithium extraction activities in SW England, and also describe recent 'superhot' geothermal work in places such as Iceland and Mexico.

Note:

This gives a more recent view of the research that is current being done particularly on HIGH temperature geothermal exploitation.

It follows on from the excellent presentation that was given by Paul Fileman on HEAT PUMPS in May 2022.

Monday 1st May 2023:

Professor William (Bill) Lockley of *The University of Surrey* will be giving a talk with the title:

"Science and Truth"

Extract

Bill will be discussing how we think of Science and Truth and will go into the relationship between the two.

He will show how easy it is to present a narrative that claims to be truthful but is false, and in many cases dangerously misleading.

He will offer some valuable advice on how to seek the truth and how to be sure that we are not deceiving ourselves.

This talk was given to the West Bridgford u3a "Science for Everyone Group" in January 2021.