



SAS Lectures/Talks - Speakers List for 2016/2017

Date	Time	Lecture / Talk Title	Speaker	Society/ Organisation	Video Lecture /Talk ¹ (Y/N)	Trans- port Reqd. (Y/N)	Abstract / Talk outline
18th September 2016	7:00 pm	The Search for Intelligent Life.	Sir Arnold Wolfendale FRS. Emeritus Professor of Physics, 14th Astronomer Royal	Durham University	Y	N	<p>Lecture Sir Arnold Wolfendale FRS. Emeritus Professor of Physics, 14th Astronomer Royal of Durham University will be giving a talk on “The Search for Intelligent Life” on Sunday 18th September 2016 from 7 pm in the Discovery room of Washington Wetlands Centre .</p> <p>‘Are we alone in the Universe?’ It’s is one of the greatest questions of our age. The lecture will deal with historical attitudes to this question and explore what we know of relevance. With the help from the audience a conclusion of the likelihood of intelligent life out there will be arrived at or not, and the Sir Arnold will give his own conclusions.</p> <p>The question of ‘where do we go from here?’ will also be examined. So please come on down and see this world class speaker.</p> <p>Cygnus Opening Ceremony The Cygnus observatory is has a new observatory dome installed with a remote access dome control system.</p>

¹ Please see 'Videos of Talks' section at end of the list.

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							<p>Therefore we have invited Sir Arnold Wolfendale FRS to officially open the Cygnus Opening Ceremony. Taking place before the lecture on Sunday 18th September 2016 from 6:30 pm at the Cygnus observatory.</p> <p>It's quite poignant as Sir Arnold officially opened the Cygnus observatory in 2002.</p> <p>There will be a photo session with sir Arnold and other invited guests with as many SAS members as we can get in the background.</p>
16th October 2016	7:00 pm	Introduction into the Egyptian belief in Astronomy.	Barbara Atkinson	Volunteer No affiliate/ organisation	Y	N	<p>Egypt's most important star deities were those which were visible every night, and their belief was so strong that various tombs and temples had their ceilings decorated with views of the night sky. Seti I and Rameses VI's burial chambers depict these scenes as does the tomb of Senmut. These 'astronomical ceilings' are amongst the most important surviving Egyptian "astronomical documents."</p>
20th November 2016	7:00 pm	Active galaxies and Super massive black holes.	Dr David Rosario	Research Associate Centre for Extragalactic Astronomy Durham University	Y	Y	<p>Super massive black holes have moved firmly on to the main stage in the story of the Cosmos. Once regarded as oddities, they are now known to serve as powerful engines in the evolving life of galaxies.</p> <p>David will talk about the history and our current view of these monstrous systems; our best evidence for their</p>

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							existence; how they form, grow and influence their environments; and what scientific challenges remain in our understanding of the activity in the centres of galaxies.
18th December 2016	7:00 pm	Microscopic world of lunar dust.	Dr Carol Kiely	SAS member/ Lehigh Valley Amateur Astronomical Society(LVAAS), /LeHigh University , Pennsylvania, USA	Y	N	<p>“Wow, you can see so much detail,” are often the words spoken by a person who is looking through a telescope at the Moon for the first time. But what would they say if they could take an even closer look?</p> <p>The Kaguya satellite and the Lunar Reconnaissance Orbiter have provided us with some spectacular high resolution images of the lunar surface. For an even closer view, just take a look some of the photographs taken by the Apollo astronauts.</p> <p>The entire surface of the moon appears to be covered in fine grey powder. Closer still and you can see individual dust particles whose structure provides clues as to how they were formed. A combination of 3D videos, high resolution colour photographs, scanning electron and x-ray micrographs will be used to reveal some of the secrets of our nearest neighbour.</p>
15th January 2017	7:00 pm	Capturing and Processing Lunar Images	David Ettie	Sunderland AS	Y	N	A review of techniques involved in the capture and processing of Lunar images

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							including Capture and Processing software and post processing Image manipulation. The presentation will also review equipment needs and limitations and will include both DSLR and CCD imaging."
19th February 2017	7:00 pm	Weaving the Cosmic Web.	Dr Pete Edwards	Director of Science Outreach, Durham University Department of Physics	Y	N	<p>Our local star, the Sun, is just one of the many billions that form the vast collection we call the Milky Way</p> <p>Galaxy. Observations with large telescopes tell us there are at least as many galaxies in the Universe as there are stars in the Milky Way. Furthermore, these galaxies are not randomly distributed throughout the Universe, but form a spidery network that has a filamentary structure dubbed the 'cosmic web'.</p> <p>This talk will take the audience on a journey to discover and explore the structure of the Universe. We will traverse the web and show how, using supercomputers, cosmologists and the Eagle Project are closer to answering the question "How did the Universe evolve into the beautiful place we see today?"</p>
19th March 2017	7:00 pm	Introduction to Astrophotography	Chris Duffy	Sunderland AS	Y	N	Talk Outline To Be Confirmed. Everything you want to know and were afraid to ask regarding your introduction to the world of astrophotography.
16th April 2017	7:00 pm	Art influenced by astronomy	Graham Edwards	Sunderland AS	Y	N	The talk will look at the influence of the heavens on man's artistic development and how he portrayed his observations

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							onto canvas and other artistic supports taking into account his beliefs over time.
21st May 2017	7:00 pm	SAS Astrophotography Competition.	SAS Chairperson	Sunderland AS		N/A	Hosted by SAS.

Location

All talks unless otherwise stated will be given on a Sunday evening for the date and time shown above in the Discovery Room at the Washington Wetlands Centre, Pattinson, Washington, Tyne and Wear, NE38 8LE.

¹Videos of Talks

This season (September 2016 - May 2017) our society is thinking about the possibility of video recording some of our lectures and talks.

These videos recordings would be for our SAS members only and would be strictly used SAS website members only area.

However, this is entirely optional and feel under no obligation if you prefer that your talk not to video recorded.

Therefore, if you could provide an indication of your preference/non-preference for your lecture/talk to be videoed in your confirmation replies to the SAS secretary that would be helpful. This would taken as permission to video record your lecture/talk and can be changed by speaker/sas committee at any time prior to the lecture/talk with appropriate notice.

Kit Provided

Projector will be provided for the talk.

A laptop, speakers, laser pen, etc can be provided upon request.

[Travel & location instructions.](#)