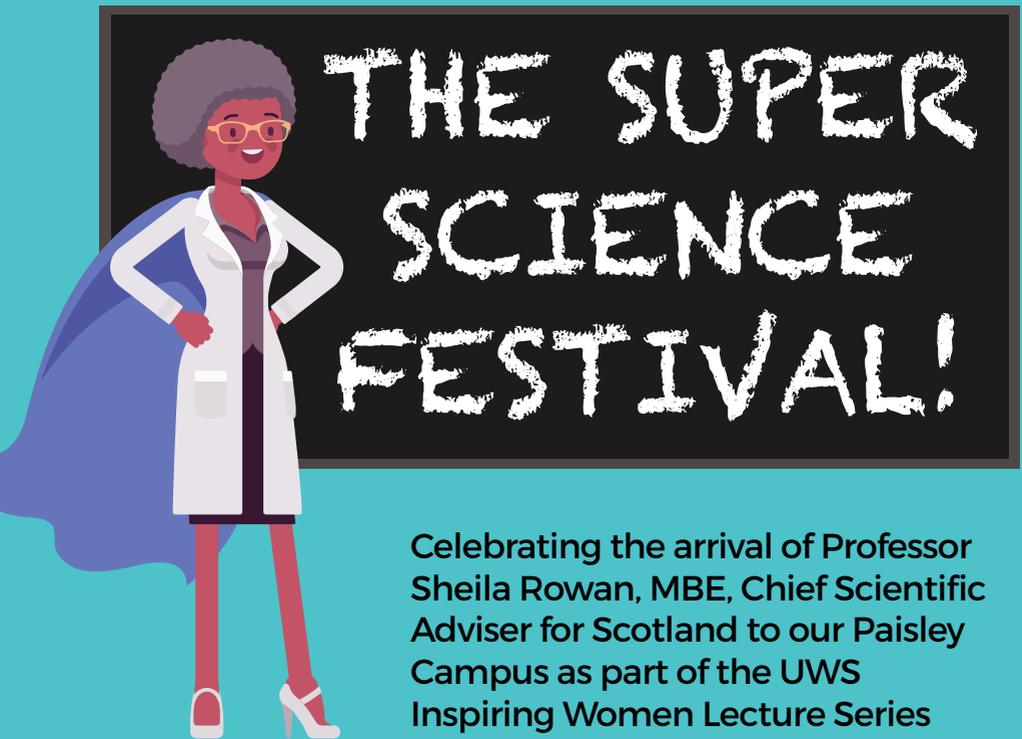




# PROGRAMME



Celebrating the arrival of Professor Sheila Rowan, MBE, Chief Scientific Adviser for Scotland to our Paisley Campus as part of the UWS Inspiring Women Lecture Series

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**UWS** INSPIRES  
SCIENCE

  #UWSInspiringWomen

Event sponsored by: 

# The Atrium

<b>Science and Technology for Building Conversion</b>	<p>VR Headsets (featuring scenes captured by the Historic Environment Scotland Digital Documentation and Visualisation team), 3D printed objects, 3D pens, HES produced Apps.</p> <p>This is a hands on, drop in session, to see and find out about some of the science and technology employed by Historic Environment Scotland to conserve historic sites and monuments.</p> <p><a href="http://www.engineshed.scot/">This activity kindly provided by The Engine Shed - find out more at www.engineshed.scot/</a></p>
<b>Modern Aircraft Manufacturing Techniques</b>	Demonstration of how modern aircraft, such as Boeing 787 or Airbus A350 composite materials are manufactured using resin infusion vacuum bagging technique
<b>Flight Simulator</b>	An opportunity to take a short flight in an aircraft using the University's static flight simulator
<b>Marine Creatures</b>	Get your hands wet, handle and learn about marine creatures.
<b>Magic Fluids</b>	What magic properties do your toothpaste nail varnish and other everyday items have?
<b>Smart Materials</b>	Get smart! See how smart materials change their properties in response to external stimuli.
<b>Radio Communications and 5G</b>	How low can you go? Measure the range of micro: bit microcontrollers and explore how it applies to cellular networks, and the shrinking size of cells for higher bandwidths
<b>Engineering, Design and Manufacturing</b>	Come try your hand at 3D printing, hear about our Robotics (Lego Mindstorms) and Composites Manufacturing
<b>Spectroscopy in a Suitcase</b>	Carry out an analysis of plastics using an FTIR spectrometer - what will it reveal?
<b>Games of Chance</b>	Do you consider yourself a lucky person? Visit this activity and pit yourself against some of our resident mathematicians and see if you can beat the odds (and maybe learn something about statistics)!
<b>Micro-Plastics in Aquatic Environments</b>	Come see living marine organisms and see how plastic pollution affects them.

# The Chancellors Hall

<b>Fit Lab - Portable interactive exhibits</b>	<p>Try your hand at a variety of hands on activities – how fit and flexible are you?</p> <p>This activity kindly provided by The Glasgow Science Centre – find out more at <a href="http://www.glasgowsciencecentre.org/">www.glasgowsciencecentre.org/</a></p>
<b>3D Golf</b>	<p>Challenge yourself to a putting competition, whilst motion capture combines the views of multiple cameras to track the 3D movement of you, your club and golf ball.</p> <p>This activity kindly provided by the R&amp;A (St Andrews) – find out more at <a href="http://www.randa.org/">www.randa.org/</a></p>
<b>Lung Health and COPD</b>	Breathe! Interactive lung function and models relevant to disease.
<b>Misbehaving Bones</b>	Interactive models demonstrating bone strength with models of arthritic joints and the changes which occur.
<b>The Peak Power Challenge</b>	In a spin? Try to complete a 6 second 'Peak Power Test' on a static exercise bike!
<b>World of Virtual Cycling *</b>	Watch the Prof cycle around the world, track which countries the Prof reaches and monitor his physiological responses too! Using a Watt-bike, linking up to the new world of virtual cycling you will be able to see the fastest growing area of sport at the moment.
<p>* This activity is celebrating UWS hosting the European College of Sports Science Congress in July 2021</p>	
<p>Find out more at <a href="http://www.uws.ac.uk/">www.uws.ac.uk/</a> and search ECSS</p>	

# The Reception

<b>Race to Virus X</b>	<p>How safe are the medicines we take? That's where the Scientists at Merck come in to action and in a race against time we test medicines you take every day, ensuring they are safe and fit for purpose, helping to make you better!</p> <p>This activity kindly provided by Merck – find out more at <a href="http://www.merck.com/">www.merck.com/</a></p>
<b>#Snapchat Midwifery</b>	From finding the fetal heartbeat to healthy eating on a plate, find out more about midwifery
<b>How Can We Stop Fruit Turning Brown?</b>	Have you ever bitten into an apple, set it down for a few moments and found that it has turned brown? This is due to oxidation (reaction with oxygen). Come and investigate various techniques to prevent or slow down this oxidation reaction
<b>Hair and Alopecia</b>	With microscope slides of hair, skin and immune cells, you can find out about the different types of alopecia, focussing on alopecia areata.
<b>Fingerprint Keyring</b>	You are unique! Get your fingerprint taken and carry away a copy of your own fingerprint in a UWS keyring
<b>The Parasite or Amoeba World</b>	Amoeba are microscopic organisms that live everywhere around us. Come and learn how many live amongst us, what they eat, how dangerous they can be to us and what good things we could do for them.
<b>Sponsors Table</b>	akp Scotland have kindly sponsored the Super Science Festival, as part of the Inspiring Women Lecture Series. For more information visit <a href="http://www.uws.ac.uk">www.uws.ac.uk</a> and search 'Inspiring women'



For nearly 30 years **akp**, as a principal contractor with 'Building Pride' at its heart, has helped transform lives through innovative fit out and refurbishment and spectacular new build.



Our role in the delivery of UWS's game changing £110m new Lanarkshire campus is only one example of the skill and talent found in **akp**.

This year **akp** were announced as winner of the Fit Out of Workplace category at the 2018 British Council for Offices Regional Awards and are a contender for a National Award.

For more information or to get in touch to explore how we can help with your project check our website [www.akpscotland.com](http://www.akpscotland.com)

**akp** is the primary sponsor of the UWS Inspiring Women Lecture Series.

**#BuildingPride**