

CHELTENHAM

Science
Festival

in association with



Monday 10 December

10am-12pm

Years 8&9

The Bacon Theatre

Dean Close School, Cheltenham

The Gloucestershire Schools' Christmas Lecture

A spectacular learning experience for KS3

Treat your pupils to a **FREE, one-off STEM extravaganza with Russell Arnott, Jessica Barker and FC.**

The Gloucestershire Schools' Christmas Lecture is a spectacular STEM show for Y8&9 which brings the best of Cheltenham Science Festival to The Bacon Theatre, in a bid to inspire and engage inquisitive young minds. As well as enjoying an interactive lecture covering some of the latest scientific themes, pupils will learn more about the benefits of studying science, technology, engineering and maths at GCSE.

"Fun, informative and inspiring"

Teacher feedback from 2017

Tickets are free* & booking is now open! Go to cheltenhamfestivals.com/gloslecture to book.

For more information, contact the Education Team on education@cheltenhamfestivals.com or call **01242 537268/537250.**

*Please note that tickets are only available through the Education Team in advance of the event, and are not available on the day. Free activities are subject to a £25 admin charge and a cancellation policy (see our website for details)





Russell Arnott Sea Soup

Every time you venture into the ocean you are surrounded by thousands of minuscule creatures. Let marine microbiologist **Russell Arnott** be your tour guide through the incredible world of the small but mighty! Discover how this fascinating microscopic menagerie of mini-beasts help to provide the food we eat and the air we breathe. Find out how we can conserve these critical critters as we see just how important plankton are to life in the ocean and on land.

Russell Arnott has been an oceanographer, a science teacher, and a punk-rock guitarist. He performs at science festivals and schools throughout the UK, championing ocean conservation as the Education Consultant and Presenter for the marine education charity *Incredible Oceans*. His TV work includes science segments on Channel 5's *Outrageous Stunts* and *The Saturday Show*. He researches phytoplankton dynamics at the University of Bath.

@Russell_Arnott
www.incredibleoceans.org



Jessica Barker & FC How To Hack A Bank

Do you have a habit of using the same password online? Watch how quickly an audience member can crack your code! Explore the increasingly sophisticated defensive technology in our digital world, and find out how hackers are targeting our human nature to gain access to sensitive data. Join cyber security experts **Jessica Barker** and **FC** for a rollercoaster ride of lock-picking, police chases and multi-million pound bank heists, as they demonstrate how their work is helping organisations to improve security and protect against threats.

Jessica Barker is a leader in the human nature of cyber security. She is frequently called on by broadcast media for her clear and engaging communication of technical subjects and is passionate about encouraging young people to become more engaged with cyber security.

FC is a well-known ethical hacker and social engineer. He has helped steer governments to take corrective courses of action against national threats, and "broken into" hundreds of banks, offices and government facilities to assist organisations to improve their security.

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