

Barts and Queen Mary Science Virtual Festival 10 June 2022 – virtual programme

Virtual talks for older secondary school children/teachers

10am-10.30am

Vivienne Monk, Barts Health NHS Trust

DFN Project Search - a one-year transition to work programme for young people with learning disabilities and autism.

This session presents information on this innovative programme designed to help young people with disabilities into full-time employment.

Offering a one-year transition to work programme in their final year of school or college, the DFN Project SEARCH model involves an extensive period of skills training and career exploration within the NHS.

The session also includes a video which lasts for 14 minutes.

Format: Teams

For more information/registration email sciencefestival@qmul.ac.uk

11am-11.30am Nnebe Oje, Royal Hospital Orthopaedic Trust and Jackie Buck, Barts Health Trust

Clinical research careers talk. Learn more about different ways of starting a clinical career.

Format: Teams

Short video followed by a chance to ask questions about this topic.

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11.35am-12.05pm Liliana Szabo, Advanced Cardiovascular Imaging, Queen Mary University of London.

Athlete's heart and basic life support awareness through the eyes of an early career researcher.

Format: Teams

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12.05pm-1.40pm – break/time to browse website resources

1.40pm-2.10pm

Rebecca Charles and Mariana Fernandez Caggiano, William Harvey Research Institute

How to fix a broken heart?

Format: Teams

For more information/registration email sciencefestival@qmul.ac.uk

2.15pm-2.45pm Centre of the Cell

Format: Zoom

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How Air Pollution Boggles the Brain

Blurb: Did you know that if your brain was a computer, it would be performing thirty-eight thousand trillion operations every second? Take a look into how your brain processes information that it takes in from its senses by puzzling out some illusions, and then consider the effect that air pollution might be having on the processing power of our brains with our “How Air Pollution Boggles the Brain” Workshop. The MRC Centre for Environment and health in collaboration with Queen Mary University of London and the University of Bedfordshire are currently researching the impact of air pollution on children’s cognitive abilities and have developed this workshop as a way of explaining what it is that we’re looking at, and why we’re interested in it.

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3pm-3.30pm Paul Curzon, Queen Mary University of London

Human Error and Medical Device Design

Using illusions, puzzles and examples of good and bad medical device design, we will explore how programmers can prevent medical error with good interaction design. When disasters occur, human error is often given as the reason, but even experts make mistakes using poor technology. Rather than blame the person, human error should be seen as a design failure. Bad design can make mistakes more likely and good design can often eliminate them. This is especially important if the gadgets are medical devices where mistakes can have enormous consequences. The best computer scientists and programmers don’t just understand technology, they understand people too, and especially our fallibilities. If they don’t, then mistakes using their software and gadgets are more likely. If people make mistakes, don’t blame the person, fix the design and save lives.

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3.35pm-4pm Charlotte Patten, Moorfields Biomedical Research Centre

Eye-Q, is a rich source of information about eyes and vision, eye health, and what you can do to help people with eye problems. The Eye-Q team from Moorfields Eye Hospital will run an online workshop for 11-18 year olds. We hope that you will like what you see, and that you might want to give some of your time and join our team of Young Volunteers.

The purpose is to inspire young people of all backgrounds to volunteer, and maybe plan a career in the NHS.

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