**Monday 10 September**

**10.00 - 11.00 am**  **Pickaquoy Centre, Kirkwall**  **THE BLACK DEATH**

The 13th-14th century pandemic begins to overwhelm US historians, not least because it reshaped the working world of the 11th century. How has modern research, including chemical analysis of medieval coins, added to the story? And what of the epidemiology of the disease?

Organised by the Institute of Epidemiology and Dying.

**11.30 am - 12.30 pm**  **Pickaquoy Centre, Kirkwall**  **Miniature Whisky School: MALTING AND MASHING**

Iain MacLeod, former maltster at modern-day Laphroaig, explains how modern whisky is made using all the technical details of mashing, distilling and maturation.

Organised by the Scottish Malting Trade Association.

**2.00 - 3.00 pm**  **Treasures of the North Sea Centre, Stromness**  **THE POWERHOUSE OF THE STARS**

Geoffrey Stell with a sequel to his 2010 talk, focusing now on the extraordinary array of galaxies in the Virgo supercluster, and looking ahead to the Chandra X-ray camera’s discoveries in the next few years.

Sponsored by STFC and the Royal Society of Edinburgh.

**3.30 - 4.30 pm**  **Pickaquoy Centre, Kirkwall**  **FROM THE BLACK DEATH TO 1800: THE HISTORY OF ORKNEY**

Martin Martin of Orkney in History, a 17th-century islander, relates the history of Orkney, the people and the culture, mainly pre-modern, with a focus on the island’s social and cultural history.

Sponsored by the KT.

**5.15 - 6.15 pm**  **Pickaquoy Centre, Kirkwall**  **THE DARK SIDE OF THE UNIVERSE: PAPERWORK, PARTICLES AND POKÉMON**

The talk will be given by Dr Tim Dolan and will explore the darker side of the universe, including the mysteries of dark matter and dark energy, and draw on various popular science representations of these topics.

Sponsored by e-availability.

**7.30 - 8.30 pm**  **King Street Halls, Kirkwall**  **THE ONE O’CLOCK TOAST AT THE PEEDIE KIRK**

The folklorist and observer George Marwick of Yesnaby, by Tom Muir

Organised by the Orkney Fishermen’s Society.

**Tuesday 11 September**

**9.30 am - 12.30 pm**  **Highland Park Visitor Centre, Kirkwall**  **MIZKIN ViWAG: WALKING AND WASHING**

Victoria and Albert Museum (V&A) hosts an exhibition exploring the VictorianWorking Age. The talks will explore the idea of moral purity and Victorian’s ideas of beauty and hygiene, and how these ideals shaped their daily lives. The talk will be given by Dr Tim Dolan

Organised by the Institute of Brewing and Distilling.

**10.00 - 11.00 am**  **Pickaquoy Centre, Kirkwall**  **SCANNING THE PAST**

Orkney College UHI archaeologists reports on new scanning work: 11.30 am - 12.30 pm Pickaquoy Centre, Kirkwall

Prof. Michael Fourman of Edinburgh University marks the 100th anniversary of the birth of an extraordinary man. Fire from the skies and disease made Job question the role of law. Can they succeed? Tom Todd of the Culham Centre for Fusion Energy.

Organised by the Science of the South Pacific.

**11.30 am - 12.30 pm**  **Pickaquoy Centre, Kirkwall**  **THE GENIUS OF BLETCHLEY PARK**

Dr Peter Gesner, who led the excavations, is drawing on new DNA information and samples along the way. Numbers limited to 10 people. Industry specialists Richard Beattie and Dr Tim Dolan provide inside knowledge of the site.

**12.30 - 2.00 pm**  **Homeground, Kirkwall**  **LUNCH AT THE PEEDIE KIRK**

Orkney fisherfolk take part in a research project to find out how the sea has been changing in recent years.

**10.00 - 11.00 am**  **Pickaquoy Centre, Kirkwall**

**11.30 am - 12.30 pm**  **Pickaquoy Centre, Kirkwall**

**1.00 - 2.00 pm**  **St Magnus Centre, Kirkwall**  **THE BLACK DEATH**

The terrible 14th-century disease is normally linked to rats and infection. But the disease's introduction to Europe had more to do with the climate, according to a new study.

**3.30 - 4.30 pm**  **Trinity Centre, Kirkwall**  **SCIENCE AT WAR IN ORKNEY**

Dr Tim Dolan looks back at important changes in the lives of his family and those of his parents and grandparents due to this devastating disease.

**5.15 - 6.15 pm**  **Pickaquoy Centre, Kirkwall**  **SCIENCE IN THE SOUTH PACIFIC**

Dr Tim Dolan looks back at changes in the lives of his family and those of his parents and grandparents due to this devastating disease.

**7.30 - 8.30 pm**  **St Magnus Centre, Kirkwall**  **THE FLOOD LIT: RIVER & SEA - THE SCOTLAND STORY**

Join the great Molecule Hunt! Find the models in Kirkwall and puzzle out the riddles. Who will win the prize?

Sponsored by the Orkney Science Festival.

**Wednesday 12 September**

**9.30 am - 12.30 pm**  **Pickaquoy Centre, Kirkwall**  **THE FLOOD LIT: RIVER & SEA - THE SCOTLAND STORY**

Join the great Molecule Hunt! Find the models in Kirkwall and puzzle out the riddles. Who will win the prize?

Sponsored by the Orkney Science Festival.
Dearer fuel and emissions restrictions, say Prof. Alf Baird of Edinburgh, home may help reduce energy demand and cut costs in simple ways. Dr Stuart Galloway of Strathclyde University explains how the intelligent use of energy can help combat climate change.

The filmed story of how a young secretary with no scientific qualifications recently discovered humorous poems, plus songs and music from the rainforests of Tanzania, which spanned more than 50 years. Tickets £6 & £4.

The man who confirmed Einstein’s general relativity also developed theories that predict the existence of a particle that would explain away the mystery of mass. Join Prof. John Ellis at the frontiers of particle physics. He explains ideas at the heart of a star. He explained ideas at the frontiers of physics.

The latest news from the front line in marine renewables. Neil Kermode of the Scottish Aquaculture Research Centre introduces the latest developments in their communities. Tickets £6 & £4.

A new EU-funded project, NEPHROPS, aims to reduce discards and improve the long-term sustainability of the haddock fishery. Professor Mark Johnson of NUIG and Dr Magnus Johnson of the Fisheries Association and the National University of Ireland, Galway, describe the challenges and report on progress.

Jane Goodall, internationally known for her work on primates and human evolution, tells of her experiences in Africa to America, from the rainforests to the Arctic, and the impact her work has had on the conservation of our planet. Tickets £6 & £4.

The filmed story of how a young secretary with no scientific qualifications recently discovered humorous poems, plus songs and music from the rainforests of Tanzania, which spanned more than 50 years. Tickets £6 & £4.

Two early Nobel physics laureates were inspired in their careers by a teacher, Prof. Balfour Stewart, whose family came from Orkney. With old Orkney crafts, stories and music, food and drinks, this is a truly palatial setting. Admission free.

Jane Goodall describes the challenges that face communities from across the globe. She tells of her experiences of working with chimpanzees and the impact her work has had on conservation. Tickets £6 & £4.

The power of music to change the world. International stars and leading Scottish music figures will perform in celebration of the 25th anniversary of the YESNABY’S MASTERS STORYTELLER. Vaudeville and portentous poets bring an air of mystery, tension and foreboding. Performers include Taggart, Jock McAlpine, Mariana and Sian McRae. Tickets £5 & £3.

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