

SCIENCE WEEK

IRELAND 2007

SCIENCE AND TECHNOLOGY WEEK
INSTITUTE OF TECHNOLOGY, SLIGO

Tuesday 6th of November to Wednesday 14th of November

Admission free.

www.itsligo.ie

www.scienceweek.ie

Tuesday 6^h November

7.00pm Official Launch by Councillor Jonathon McGoldrick Mayor of Sligo.

HARD RAIN PROJECT; Mark Edwards **Main Concourse.**

July, 1969. Mark Edwards, lost on the edge of the Sahara, is rescued by a Tuareg nomad, who takes him to his people, makes a fire and produces a cassette player. Bob Dylan sings “A Hard Rain’s A-Gonna Fall”. As Dylan piles image upon image, the idea comes to Edwards of illustrating each line of the song. In the years that follow, he travels to over 150 countries to photograph our headlong collision with nature. *Hard Rain* is the result — an unforgettable collection of photographs illustrating Dylan’s prophetic lyric on a 55m Banner displayed for the week in IT Sligo.

www.hardrainproject.com



Science week lectures

Tuesday 7th of November

7.30 pm

Theatre A0004 (live online)

John O'Dea.

Even Physicists in Glasshouses get Hot,

Environmental Physics Lecturer IT Sligo

Short introduction to the science of climate change.

8.00 pm

Fr Sean Mc Donagh

Climate Change, Science, Politics, Ethics:

ECO PRIEST FOR SCIENCE WEEK

Christian ecologist and Irish Columbian priest, Father Sean McDonagh, will deliver the opening lecture for Science Week in the IT Sligo on this Tuesday 6 November at 8pm entitled 'Global Climate Change'. McDonagh gained his knowledge of ecology while working among the T'boli people, in the Southern Philippines. The inspiration for his first book *To Care for the Earth* did not come from the halls of the academia but rather from living in the Philippines where he saw the tropical forests being plundered with appalling consequences for the T'boli people and the world around them.

He talks of the 'the extraordinarily destructive impact of environmental degradation on a people'. McDonagh believes that the preservation of the earth is an ethical issue and a religious issue, and that people need to see the response to the natural world as part of a Christian faith. McDonagh is acknowledged as a pioneer of the theological genre that links ecology with religion. He will speak for an hour at 8pm in room A0004 in IT Sligo and the lecture will be followed by a question and answer session.

Wednesday 7th November

8.00 pm

Theatre A0004 (live online)

Billy Quinn and Dec Moore

The Great Beer Experiment; a Re-assessment of Fulacht -Fiadh!

Fulacht fiadh Ireland's earliest breweries? Archaeologists Billy Quinn and Dec Moore explore the history of these horseshoe-shaped mounds and their associated trough.

www.mooregroup.ie



Thursday 8th November

In association with Research & Education Foundation at Sligo General Hospital.

8.00 pm

Theatre A0004

Professor Marie Cassidy

State Pathologist

Forensic Lecture



Prof. Marie Cassidy is currently State Pathologist in Ireland, involved in the investigation of Suspicious deaths and Homicides. She has been a Forensic Pathologist for 20 years and prior to her appointment in 1998 she worked in the Forensic Department at Glasgow University. She is Professor of Forensic Medicine in the Royal College of Surgeons of Ireland and Trinity College, Dublin, which involves teaching Forensic Medicine to Medical Students. At

present she is developing a post graduate course in forensic medicine aimed at Doctors, Lawyers, Police etc. who are involved in, or wish to be more knowledgeable of, Forensic Medicine and Science.

As part of her forensic work she has been involved with the U.N. since the mid 1990's. She has travelled to Bosnia on several occasions, as well as to Croatia and latterly to Sierra Leone as part of a team involved in the investigation of war crimes, in particular the examination of bodies from mass graves.

Friday 9th November

8.0 pm

Theatre A0004

BirdWatch Ireland

Barry O Donoghue

The Irish Hen Harrier

Barry O'Donoghue is a Conservation Officer with the National Parks and Wildlife Service (NPWS), based in Co. Clare, researching the movements and wintering locations of young harriers.

www.sligobirding.com

Monday 12th November

8pm

Theatre A0004

John Ryan

Mobile Phone Masts-Why we can't locate site them all on the Aran Islands.

How mobile phones work, radio emissions from base stations and the reasons why base stations can't be placed far away from communities as most people want. John is a consultant engineer with Vilicom Limited, Dublin

Tuesday 13th November

8pm

Theatre A0004

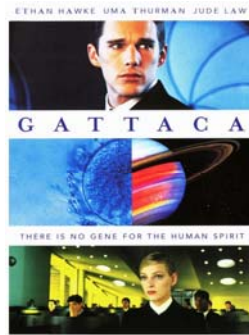
Professor Bryan Sykes

Blood of the Isles: A Genetic History of Britain and Ireland

Professor Bryan Sykes is known around the world as the best-selling author of "The Seven Daughters of Eve" in which he traces the descent of Europeans to seven women who lived tens of thousands of years ago. He is the Founder and Chairman of Oxford Ancestors and is Professor of Human Genetics at the University of Oxford.

www.bloodoftheisles.net

The Science Fiction Film at Six Series



Theatre C1006

Students of Biomedical science 3 as part of their Biomedical Issues module will screen 4 films which explore issues related to how advances in science & technology may impact human futures.

Each film is preceded by a short pre-film talk which outlines the current technological potential in these areas of science and at the same time highlights potential ethical issues that may arise from their advancement. These include issues related to reproductive freedom, privacy, genetic enhancement, cloning and bionics.

**AI (Artificial Intelligence) Dir: Steven Spielberg Tues Nov 6th
6pm**

AI is based on potential advances in the sciences of bionics and neurobiology. It raises questions such as: can a human being love a robot, another animal, a machine, another human?.... and does the human have a responsibility to these different entities if they are loved?

**Gattaca: Starring Uma Thurman/Ethan Hawke Wednesday Nov
7th 6pm**

Thriller which addresses potential impact of genetic engineering on society

**The Boys from Brazil: Classic starring Laurence Olivier/Gregory
Peck: Tues Nov 13th 6pm**

Classic Thriller/Drama which highlights the potential destructive power of scientific knowledge in the wrong hands

**The Island: Recent starring Ewan Mc Gregor, Scarlett Johanson
- Wed Nov 14 6pm**

Action Thriller which raises questions about the implications of human desire for enhancement and longevity.

FORENSICS LUNCHEES for 1st and 2nd years

1pm B2051

Thurs 8th Nov:

Science and the Law: Legal perspectives of Forensic DNA databases
Forensic Anthropology: Looking at Ancestry: Aging, Identification and more

Thurs 15th Nov

The Aging Skull and face
Detecting Doping Agents in hair

Irish Science Teachers Quiz

7pm Sligo Park Hotel

Science Quiz organised by local science teachers, Sponsored by IT Sligo and Allergan

SCIENCE WEEK IRELAND 2007

**Sunday 11th November
Science & Technology Fair
12noon– 5.30 pm @ the Institute of Technology,
Sligo
Suitable for all ages - All welcome - Free!**

Eagles Flying - Irish Raptor Research Centre

12-5.30 pm

Front Foyer

Experience some of the biggest birds of prey in the world as you enter Sligo IT.

www.eaglesflying.com

Birdwatch Ireland

12 noon

Annual outing to Lissadell, meet at the Fish at IT Sligo and bring waterproofs, sandwiches and transport.

www.sligobirding.com

Randal Henly presents Fun With Science

12 pm and 2 pm

Room A0004

Science Spectacles to Entertain and to Educate. A wonderful lecture-demonstration showing all the fun and magic of science.

Think Differently with Paul McCrory

Room

A0005

1pm, 3pm, 5pm

'Magic' Science or Mystery

www.thinkdifferently.co.uk

MADLAB – Make an electronic gadget.

12-5.30pm

Room E1006

Become an electronics engineer for the day, make your very own working electronic gadget.

[Charges for kits: Beginners: €5 Advanced: €10] Children over eight years of age.

www.madlab.org

Exploris Mobile Rock pool

12 – 5.30pm

Front

Foyer

An interactive display of local underwater creatures

www.exploris.org.uk

Going Wild in Sligo – with Eanna Ni Lamhna

1pm, 3pm, 5pm

Room B2002

Irish mammals, birds, and creepy crawlies - where they live, what they eat, what is good and bad for them.

Discover Primary Science Display

12.30-2.30

Main Concourse

An exciting display of science experiments by local primary school children.

www.primaryscience.ie

Ecology and Biodiversity Workshop, with Robin Barry

12pm, 1 pm, 2pm, 3.30pm, 4.30pm

Room B1090

This hands-on workshop creates awareness of ecology, the importance of biodiversity and the protection of natural habitats.

Science2Life with Sue McGrath

12pm, 2pm, 4pm

Room B2001

An explosive and energetic performance relates the abstract world of science to everyday objects and events.

Mobile Planetarium: Space encounters

Dr. Ed Barnett

Black Box

Theatre

12pm, 12.45pm, 1.30pm, 2.15pm, 3.20pm, 4.05pm, 4.50pm, 5.35pm

Dr Ed Barnett presents the night sky in all its beauty.

www.space-encounters.com

Fun With Fibers

Marie Martin and Helen Maguire, St Angela's College

1pm, 3.30pm,

Room B2007

An hour long, weaving workshops where participants will look at fibres and weave colourful greeting cards or dream catchers. Suitable for children over 8 years, 16 per workshop only.

Fun with Food

The Food Studies Team from St Angela's

Room B2030

This involves looking at food spoilage under microscopes, suitable for all ages

Voluntary First Response Search and Rescue Services

Sligo Bay Life Boat

Sligo Subaqua Club

Sligo/Leitrim Mountain Rescue

Sligo Civil Defense

All Day

Canteen

Take the opportunity to meet the volunteers and members of Sligo and Leitrim's emergency services, hear their stories and see the equipment they use.

Sligo Fire Service

All Day

Room B1082

Display of fire prevention and damage.

Also mobile road show in the car park on Manorhamilton Road.

Science & Technology Puzzle

All Day

Front Foyer

Get your entry form from our volunteers and be in with a chance to win a book voucher sponsored by *The Book Nest* or a Family day ticket to W5 in Belfast.

Sligo Model Flying Club

All Day

Canteen

A static display of radio-controlled model aircraft.

www.sligomfc.com

National Parks and Wild Life Service Display

All Day

Main Concourse

"Wild Goose Chase" - Wintering Wildfowl.

"Winter Woodland Wonderland" Seeds, Berries and Nuts.

www.npws.ie

DAFT ANTICS with County Sligo Circus School

1pm, 3pm, 4pm

Room C1005

Learn skills in juggling, acrobalance and circus skills with *Daft Antics* and, students from the circus school.

Www.holdmyumbrella.com/antics

Displays by Local Industries

All Day

Main Concourse

A number of industries from the Region showcase their products and their manufacturing technology.

James Soper ;The Science of the Circus

12.30pm, 2.30pm , 4.30pm

RoomE0011

Spectacular juggling and balancing tricks are used together with lots of volunteer help to show how forces work and combine when real circus performers show off their skills

Walter Rohr; Whiz, bang, and pop science

1pm, 2.30pm

Room E0017

The world of science, in an exciting and fun way, with lots of flashes and bangs for good measure. Suitable for all ages.

Flights of Fancy

All day

Library Seminar room

Build a scientific flying toy and launch it

Declan Holmes; the True Physics Show

12.00 1.30pm

Room C1006

Interactive demonstrations covering pressure, flight, density, light, waves sound & magnetism.

www.truephysics.com

Rocket Workshop; Declan Holmes

2.30pm

TWO WORKSHOPS

Rooms B1040 and B1050

Exciting workshop, which gives students a chance to work in a team, building and launching their own rockets

www.truephysics.com

Whales and Dolphins of Ireland; Mick O' Connell, IWDG

12.30pm, 4pm

Room B2006

An introduction to Whales and Dolphins. There will also be a stand on the main concourse

www.iwdg.ie

Rally Ireland Motorsport display

All Day

Canteen

How does an engine work? Learn a little more about cars and, World Rally Ireland

www.rallyireland.ie

Bat Conservation Ireland

All day

Main Concourse

The main aim of Bat Conservation Ireland is to help conserve Irish bats and so they must know roughly how many bats there are and where they are in Ireland.

www.batconservationireland.org

Computer Integrated Manufacturing

All Day

Laboratory F1005

Stephen Reid IT Sligo

Visit the CIM lab and see a demonstration of Robotics and integrated manufacturing for the 21st century in our engineering department.

Canteen will be open from 12.00

IT Sligo would like to thank their sponsors and supporters without whom it would be impossible to host Science Week

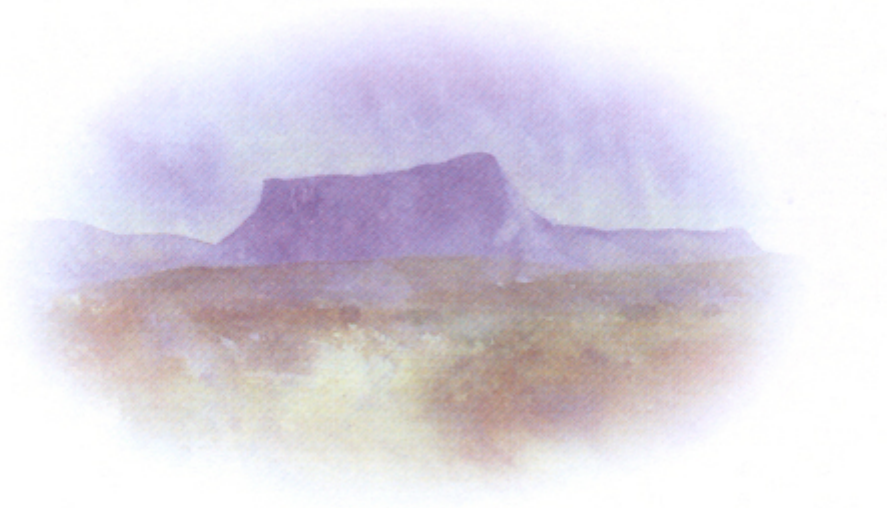
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