



Institute of Technology, Sligo

All events open to the public and Free of charge!

For more information contact 071-9155355 or 071-9155278 or www.itsligo.ie

Monday 10th November

- 7.30 pm** In theatre A0004 Pat Timpson, Head of School of Science, IT Sligo
I remember when the air was clean and sex was dirty!
- 8.00 pm** Dr Jim Donovan, former Head of Forensic Science Laboratory, Garda Headquarters
Science and Crime. This lecture deals with the applications of science to the investigation of crime.

Tuesday 11th November

- In the Aula Maxima **10 am, 11.30 am & 1.30 pm**
W5 Magic Show for Primary schools
The W5 Science Magic Show looks at the science behind some of the tricks you might expect to see magicians performing and some of the science behind their own. Cover topics such as Newton's first and third laws of motion, gravity, magnetic and electrostatic forces. A range of chemical reactions is also demonstrated in the show. The chemical reactions include changing "water to raspberryade", acid/base reactions, making water disappear and experiments that dramatically fly apart or erupt. Volunteers will have the opportunity to knock eggs into cups using a broom, spin cups filled with water above their heads, swivel on a chair using the force from a gyroscope wheel or use the Van der Graff generator to make W5's highly trained packing peanuts jump to attention. Lots of pupil interaction as volunteers, and the science behind every trick is explained. Sponsor : Forfás STI Awareness Programme
- 1.15pm** In theatre A0005 (In association with Tuesday Lunchtime Seminar Series)
Professor Richard O'Kennedy, Professor of Biological Sciences, DCU
Immune system and cancer therapy
An overview of the various components of the immune response and how the body defends itself will be given. A number of examples related to diseases e.g. smallpox, AIDS etc. will be described. The characteristics of a number of cancers and some examples will be shown. Some time will be spent demonstrating how we can use the immune system to detect and to protect us against disease. The lecture will have a number of interactive demonstrations and audience participation will be required.

- 7.30 pm** In theatre A0005 W5 Science Magic Show
Open to the general public
- 7.30 pm** In theatre A0004
Andrew Wilson, Lecturer in Architectural Model Making, IT Sligo
Thinking what you eat
- 8.00 pm** In theatre A0004
Eamonn Ansboro, Director of the Kingsland Observatory, Boyle, Co. Roscomon
Search for Extraterrestrial Visitations
Eamonn Ansboro, M.Ast. FRAS, is a world renowned astronomer who specializes in the field of Optical SETI (OSETI).



Wednesday 12th November

- In the Aula Maxima **10 am, 11.30 am & 1.30 pm**
W5 Magic Show for Primary schools
Sponsor: Forfás STI Awareness Programme
- 1.15 pm** In theatre A0004
Professor Mary Garrett, Professor of Physiotherapy, UCD.
Effect of Baby Walkers on Independent Walking in Infants
- 7.30 pm** In theatre A0004
Geraldine Duignan, Research Programme Manager, IT Sligo
Re-living the Dead Zoo: An Exploration of Science in Irish Culture at the Museum of Natural History, Dublin
- 8.00 pm** In theatre A0004
Professor Mike Baillie, Professor of Palaeoecology, QUB
Irish dendrochronology, environmental change and links to the outside world
Irish tree-rings have helped date many archaeological structures and have told us when oaks were growing on peat bogs. Now we can compare oak growth in Ireland with the responses of other trees from Siberia to Tasmania. When we do this we find some very interesting similarities – most frighteningly related to global environmental downturns.
- 8.00 pm** In theatre A0005 REAGECON presents *Careers in Science*
Presentation of Reagecon Prize to the Top Student in First Year Chemistry @ IT Sligo



Thursday 13th November

- 7.30 pm** In theatre A0004
John Daffy, Lecturer in Health Science & Physiology, IT Sligo
Drugs in Sport
'Why for some athletes winning isn't everything, it is the only thing.'
- 8.00pm** In theatre A0004
Caroline Cassidy & Caitriona Syron, Environmental Health Officers, North Western Health Board.
The Health Implications of Smoking with particular reference to young women

Friday 14th November

- 7.30pm** In theatre A0004 BirdWatch Ireland Lecture
Brian Porter The Irish Wetland Bird Survey
- 8.15 pm** In theatre A0004
Dr. Glenn Dickson, Head of Tissue Engineering Research Team, in Trauma Research Group, QUB
Osteoporosis – current and potential treatment strategies



Sunday 16th November

Science & Technology Fair
12 pm– 5 pm @ the Institute of Technology, Sligo
Suitable for all ages - All welcome - Free!

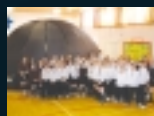
- 2 pm** Chemistry Magic Show by Randal Henly
Be amazed by Chemistry Magic – includes science demonstrations by Randal Henly – Ireland's authority on teaching science and former 'educator of the year'.
12pm, 2.30 pm & 4 pm Talking Wild with Eanna ni Lamhna
Eanna is one of Ireland's leading naturalists. Eanna will present a slide show on nature and our native wildlife.
- 12 pm, 1pm, 2.30 pm & 3.30 pm** Optics and Eyetricks with Lisa Mooney
Lisa Mooney is a science and environmental educator. This workshop deals with how our eyes work, colour and amazing optical illusions. This is a hands-on workshop, where you can design your own illusions. Suitable for all ages. Sponsor Forfás STI Awareness Programme
- All day** MADLAB – Make an electronic gadget.
This is a unique opportunity to learn how to solder and build a working electronic gadget! Make a lie detector, a music machine or a chirping, twitching insectoid. Participants solder components on to specially designed circuit boards, with beginners and advanced catered for (charge just 4 for kit)
- All day** Paper Towers with Dominic McDonald
Build the tallest tower you can, using just 30 sheets of paper and a handful of nuts and bolts. You can then take it home... at the same time learn how engineers make bridges, domes and towers so that they don't fall down.
- All day** Mobile Planetarium: Space encounters with Dr. Ed Barnett
Journey to the Edge of Space!
See the night sky in all its beauty & learn about the stars, constellations & planets. This is an opportunity to have your Astronomy and Space questions answered.



Belfast Zoo Roadshow There will be an opportunity to see and touch some of the animals such as:
• 'Pinky' the Pink-toed Tamaritula from South America
• 'Dotty' the Leopard Gecko from Pakistan
• 'Samantha' the Royal Python from West and Central Africa
• 'Sydney' the Giant African Snail from East Africa
Other exotic species on display for you to see and touch will include tree frogs, thorn insects, leaf insects and many more. Nervous parents welcome!



Robots and how they work, with Fergal Henry & Jim Rogers, IT Sligo
STEPS: a national programme aimed at promoting Engineering as a career among young people.



Rescue Technology with: Sligo Bay Life Boat Crew
Sligo Fire Brigade
Garda Síochána
Air Corp
F.C.A (O.C. 5th Field, C.I.S.)
Sligo Civil Defence



Eagles Flying The Irish Raptor Research Centre / Eagles Flying is a voluntary-run institution aiming at the preservation and conservation of wildlife and the natural heritage. Their special field is Birds of Prey and Owls.

The Development of the Motor Car
Courtesy of Hendersons Motors of Sligo

2 FM Roadcaster

County Sligo Youth Theatre Balancing
Sligo County Council Waste Management