



Discovery 2007

Cork's Interactive Science Exhibition

Taispeántas Idirghníomhach Eolaíochta Chorcaí

FAMILY DAY • CITY HALL, CORK • 18 NOVEMBER, 3 - 6pm
ACTIVITIES FOR SCHOOLS • 12 - 21 NOVEMBER

Enjoy hands-on science at the **College of Science, Engineering and Food Science (SEFS) UCC** stand. See if you can win a prize for the biggest and messiest volcanic eruption or for making the bounciest slime ball. Taste our world famous liquid nitrogen vanilla ice-cream, out-cycle a skeleton and play Bernoulli basketball, or test just how good your reactions are. Learn about mutant worms and discover all the other exciting scientific research going on in UCC.



At the **Tyndall National Institute** stand you can watch sound waves shatter glass and learn about the chemical reactions involved in making slime. Researchers show how fibre optics work, and tell the story of how a microchip is made.



4C Centre

Difficult problems can offer too many choices - The Cork Constraint Computation Centre (4C) develops the technology that will make it easier for computers to help us make these choices - making our computers BETTER and FASTER. Based in UCC Department of Computer Science, the 4C is one of the largest and most successful academic centres of research on constraint-based optimisation and decision support.



Alimentary Pharmabiotic Centre (APC)

"The Guts of Digestion"
The APC's exhibit follows

digestion from the mouth, through the oesophagus, into the stomach and through the small and large intestines, to evacuation. Learn how the food you eat is broken down into nutrients and energy. Take the Food Challenge, participate in hands-on experiments and play GutReaction, the action packed 3D game. Check out the super new <http://microbemagic.ucc.ie> kids website! See <http://apc.ucc.ie> for more details.



At the **CIT** stand there are lots of exciting interactive displays including facial recognition software, reaction timing, and handshake strength testing. Visitors can also explore the stars on a wide screen planetarium, and see the heat seeking robotic pipe climber!



Blackrock Observatory

Experience a virtual tour of Blackrock Castle Observatory at the wide screen Planetarium, an exciting NEW astronomy themed exhibition with giant hi-tech interactive screens and Ireland's first interactive cinema - where you get to save the planet! www.bco.ie



National Maritime College

The NMCI offers degrees in Nautical Science and Marine Engineering and Navigational Studies. The College has modern

state of the art Ship Simulation, Sea Survival and Marine Engineering facilities. Graduates are working all over the world, both at sea in senior positions and ashore in shipping companies. See www.nmci.ie



Cork Electronics Industry Association

Look around you. How many things can you see that use electricity? Computer games, TVs, mobile phones are just a few. We'll also show you how engineers are working to create robots to play soccer against the world cup winning team in 2050 and helping to develop cameras that can recognise faces in a crowd.



Johnson & Johnson Group.

Johnson & Johnson is a global manufacturer of health care products, and provider of related services for the pharmaceutical, medical devices and diagnostics markets. This exhibit shows how a variety of companies in Munster are using science in their work. Centocor Biologics researches innovative medicines that transform the lives of patients; DePuy manufactures implants such as hips and knees. Alza Ireland Limited manufactures drug delivery technology and Cordis is a pioneer in less invasive treatments for circulatory disease management. Test your dexterity skills using a unit designed to train surgeons. Other exhibits show how scientific research centres around three principles of investigation: PREDICT, OBSERVE, EXPLAIN.



Garda Siochana Traffic Division

Very popular in 2006, with speed cameras and the physics of accident investigation.

Defence Forces

View some of the technology used by the defence forces in Ireland. Experience first hand Science at Work onboard a Navy ship, and see some of the tools and machinery used by the Irish Army in their international peacekeeping role. On site at Cork Port, pending operational requirements.

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Fota Wildlife Park

Fota Wildlife Park's education programme caters to the needs of all student groups from primary to third level, allowing students to explore the fascinating world of nature through a number of interactive science-based courses.



Lifetime Lab

At the Lifetime Lab Discovery 2007 exhibition stand there are hands-on science activities to try - buzzer games, electric cars and much more. Also at the Lifetime Lab stand, the **Regional Curriculum Support Service** SESE Cuiditheoirí will be available to talk to teachers and offer support in the teaching of science in their schools.
www.lifetimelab.ie



Discover Primary Science Schools

More and more schools are joining the Discover Primary Science Programme. Several award winning schools in the Cork Region exhibit their work for the 2007 Awards.

St John's Central College & Coláiste Stiofan Naofa

PLC colleges demonstrating their multimedia courses.



Whizzkids

At Whizzkids summer camp students tackle web design, movie making and a host of high-tech challenges. Sample the Whizzkids Spy Academy at Discovery; participate in a code breaking competition for a free place at Whizzkids summer camp 2008!



Junior Achievement

JA works with young people to help them understand the world of work and the many career opportunities available. Supported by a large number of companies including Boston Scientific, Depuy, Cork County Council, Cork City Council, ConocoPhillips, EMC², Centocor Biologics, GE Healthcare, GSK, Janssen, Millipore, Novartis, PepsiCo, Pfizer and Stryker Orthopaedics.



Junior Achievement®

Techniquet

More than 25 exciting and popular hands-on exhibits from Techniquet, Cardiff, Wales – enjoyed by anyone aged 7 up. Highlights last year from this group included: the Hydrogen Rocket, the Bernoulli Blower, Crazy Crane, Design a Tree and the Treasure Chest. What will they bring this year?



Every year more and more centres of science in Cork open to the public and to school groups all year round.

Discovery has organised some special workshops for Science Week Ireland 2007, but if you can't make it this week, remember the centres you can visit anytime - as a class group or with your family.

Discovery/Science Week Ireland visits

Booking through Discovery where not stated otherwise. Fees vary.

Cork Electronics Industry Association	Electronic Circuits Workshop	FULL
Armagh Planetarium	Daytime talks for schools	FULL
Steve Thomas Roboteer	Build your own robot!	FULL
Royal College of Surgeons in Ireland	Workshops: Evolution in Action & Assessing Anatomy	FULL
Teagasc Moorepark:	School visits	FULL
Madlabs	Soldering Workshop	FULL
Digital Hub	Digital storytelling workshops using Microsoft's Photostory 3	FULL
UCC	A full programme of events. See www.ucc.ie for details	
Blackrock Castle Observatory	Experience a virtual tour of Blackrock Castle Observatory at the wide screen Planetarium, with giant hi-tech interactive screens and Ireland's first interactive cinema - where you get to save the planet! Blackrock Castle, Castle Road, Blackrock, Cork. www.bco.ie Phone 021 435 7917 for prices and availability	
CIT	Full week of activities. See www.cit.ie for full details.	
Cork City Libraries	Science is magic with Michael Moylan, Professor Madd's Experimentation and The Bubble Show. Citywide venues all week - check www.corkcitylibraries.ie for details.	
Lifetime Lab	Afternoon Science Club sessions for 10-12 year olds: 4-5pm daily, 13th, 14th & 15th November. To book call Lifetime Lab at 021 4941500.	
Fota	Fota Wildlife Park's education programme caters to the needs of all students, exploring the world of nature through interactive science based courses. Fota Wildlife Park, Carrigtwohill, Co. Cork, Ireland. www.fotawildlife.ie or Tel: 021 4812678 Fax: 021 4812744 E-mail: info@fotawildlife.ie	
Junior Achievement	Students from Cork schools are invited to attend JA workshops on-site in a range of companies, led by employees aiming to provide students with an authentic experience of work practises and employment opportunities.	
Millstreet Country Park Education Centre	Millstreet Country Park, Millstreet, Co. Cork, Ireland Tel: 029 70810 www.millstreetcountrypark.com	

Children must be accompanied by an adult.

Year Round Science in Cork



MILLSTREET COUNTRY PARK

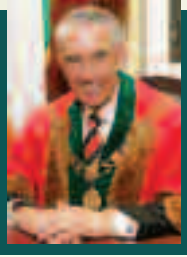


Junior Achievement®

A Variety of School to Work and Work to School programmes running year round. Contact Gráinne Murphy, JA Cork, 086 8339276

MESSAGE FROM LORD MAYOR

MESSAGE FROM TED OWENS



It gives me great pleasure to welcome you to the third Discovery Exhibition. The first was organised during Cork's year as European Capital of Culture, in that year and again in

2006 the show was such a huge success that we expect our young scientists, engineers and technologists of the future will again flock to City Hall to savour the experience of being able to interact with the exhibits.

The future of Cork, and indeed Ireland, is very much dependent on a steady supply of graduates in Science, Engineering and Technology. Discovery 2006 is bound to stimulate interest in these subjects among our young people. Hopefully it will sow the seeds of achievement in these fields.

I wish the organisers success with the Exhibition, and I am sure it will be enjoyed by all who attend it.

CLLR Dónal Counihan,
LORD MAYOR OF CORK



The City of Cork Learning Forum is delighted to once again promote the 2006 Discovery Exhibition. The event aims to stimulate interest in young people in Science, Engineering and Technology in a participative fun way. This country needs young people to take an interest in the sciences. Initiatives at primary and post primary school level have been undertaken in recent years to stimulate

interest in the sciences - increased resources have been allocated to schools, but even the best equipped schools cannot hope to replicate the wide range and variety of experiments and the hands on experience that that this exhibition offers to school children. Science should be a source of joy, wonderment and excitement to children and this is what this exhibition seeks to promote.

We are well aware in Cork of the importance of the pharmaceutical, chemical and electrical industries to our city and county. Discovery seeks to stimulate interest and hopes that some of the children and school pupils of today will be the scientist of the future.

A special word of thanks to all involved in organising "Discovery". The Cork City Learning Forum and "Discovery" in particular are an excellent example of co-operation between the community, educational, statutory and the private sectors. The Forum is particularly pleased at the increased involvement and financial support of Science and Technology firms located in our region. Such involvement should prove of mutual benefit to all.

Ted Owens,
City of Cork VEC & Chairman of Cork City Learning Forum

Special Attractions

For the first time Discovery will host a Family Day in City Hall on Sunday, November 18th, 3-6 pm. Following the success of evening opening hours in 2005 and 2006, this is an opportunity for all the family to enjoy the exhibition. At the Family Day, expect to be entertained as well as educated, with the following special guests:

THE BUBBLEMAN investigate the science behind soap films by blowing bubbles of all shapes and sizes, filling them with smoke and magically getting them to hover in mid air. The show covers simple molecular forces, surface tension, light, colour, density, volume and shapes. Washing up will never be the same again!

ALSO APPEARING: THE MAD SCIENTISTS OF CORK COMMUNITY CIRCUS Normally pent up in the lab under controlled conditions, these unconventional scientists cause havoc and hilarity as YOU become the experiment.

Note: numbers in City Hall are limited for health and safety reasons.



FAMILY DAY

CITY HALL, CORK • 18 NOVEMBER, 3 - 6pm. Admission €5 per family

ACTIVITIES FOR SCHOOLS • 12 - 21 NOVEMBER

Prebooking necessary

Workshops and visits to science centres: Monday 12 to Friday 16 November.

School visits to City Hall exhibition: Monday 19 to Wednesday 21 November.

Discovery 2007 is organised by the Economic Working Group of the Cork City Learning Forum, which includes representatives from: Cork City Council, CIT, UCC, FÁS, Cork Electronics Industry Association, Irish Primary Principals' Network, Lifetime Lab, the Johnson and Johnson group and the Tyndall National Institute.



The Cork City Learning Forum is a group set up under the Cork City Development Board to increase the culture of learning in Cork City.

Check out other events taking place during Science Week Ireland, November 11-18, at www.scienceweek.ie

SCIENCE WEEK
IRELAND 2007



Discover
Science + Engineering

Johnson & Johnson

EMC²
where information lives



FÁS



Evening Echo

FMC



Schering Plough
(Brinny) Co.

Discovery 2007, Community & Enterprise Directorate,
Cork City Council, City Hall, Angelsea Street, Cork.

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Details correct at time of going to print. Event details subject to alterations or additions. Students must be accompanied by an adult.