



Waterford Institute  
of Technology



**Waterford  
engineeringweek**

**February 27th - March 4th 2012**

**Schedule of Events Presentations and Workshops (next Page)**

<b>Presentations</b>	<b>Target</b>	<b>Time</b>	<b>Capacity</b>
<b>Monday 27<sup>th</sup> February</b>			
From Newgrange to the New Bridge – The Story of Irish Engineering	Primary	9:45 – 10:45	120
What Use is Maths?	Junior Cert.	12:45 – 13:45	120
<b>Tuesday 28<sup>th</sup> February</b>			
Boyle Show	Primary	10 – 11:00	200
Boyle’s Law 350 <sup>th</sup> Anniversary	Senior Cycle	12 – 13:00	200
<b>Wednesday 29<sup>th</sup> February</b>			
Station X the Battle for the Atlantic	Junior Cert	11:30 – 12:30	120
Introducing Integration using the Monte Carlo Method	Senior Cycle	13:15 – 14:15	120
<b>Thursday 1<sup>st</sup> March</b>			
The Electricity – The Irish Connection	TY / Senior Cycle	9:45 – 10:45	200
Quiz	TY / Senior Cycle	11:30 – 14:30	200
<b>Friday 2<sup>nd</sup> March</b>			
Energy and Climate Change	Primary	10:00 – 11:00	200
Feel the Heat	Junior Cert	12:00 – 13:00	200
All events are free but booking is essential with Catriona Carroll, School of Engineering WIT at 051 30 2613 or <a href="mailto:cbcarroll@wit.ie">cbcarroll@wit.ie</a>			

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Workshop	Target	Time	Max Places
<b>Monday 27<sup>th</sup> February</b>			
Electric Motor Make and Take	Primary / JC	9:30 – 10:30	30
Electric Motor Make and Take	JC / 1 <sup>st</sup> year	11:15 – 12:15	30
Energy and Forces	Prim /JC	12:30 – 13:30	30
<b>Tuesday 28<sup>th</sup> February</b>			
Structures	Primary	9:30 – 10:30	30
Structures	Junior Cert	11:15 – 12:15	30
Electronics Club	Junior Cert	13:00 – 14:00	30
<b>Wednesday 29<sup>th</sup> February</b>			
Electric Motor Make and Take	Primary	9:30 – 10:30	30
Electric Motor Make and Take	JC / 1 <sup>st</sup> year	11:15 – 12:15	30
Robots and Electronic Music (max group 24)	TY / 5 <sup>th</sup> / 6 <sup>th</sup> Yrs	10:00 – 13:00	24
<b>Thursday 1<sup>st</sup> March</b>			
Electric Motor Make and Take	Primary	9:30 – 10:30	30
Squishy Circuits	Primary	12 – 13:00	30
<b>Friday 2<sup>nd</sup> March</b>			
Structures	Primary	9:30 – 10:30	30
Structures	Junior Cert	11:15 – 12:15	30
Material Testing	Leaving Cert/ PLC	11:00-12:00	30
Pneumatics	Leaving Cert / PLC	12:00-13:00	30
Electrical Engineering	Leaving Cert/ PLC	13:00 – 14:00	30
Workshop maximum numbers are 30 except where otherwise specified. All events are free but booking is essential with Catriona Carroll, School of Engineering WIT at 051 30 2613 or <a href="mailto:cbarroll@wit.ie">cbarroll@wit.ie</a>			

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## About Engineering at WIT

Waterford Institute of Technology has a long tradition of engineering education producing engineers and engineering technicians for industry in the Southeast, throughout Ireland and around the world. The presence of a successful engineering school is a major factor in attracting and maintaining industry in the region.

Courses are offered in the main disciplines of engineering: electronic, electrical, mechanical, manufacturing and civil, with specialist courses also available in building services engineering and sustainable energy engineering. Direct entry is available to courses from level 6 (Higher Certificate) to 8 (Honours Degree) and progression is possible all the way to PhD. WIT also offers courses in related disciplines in construction, computing and science.

For more information see:

[www.wit.ie/SchoolsDepartments/SchoolofEngineering](http://www.wit.ie/SchoolsDepartments/SchoolofEngineering)

## About Calmast

**CALMAST**

Waterford Engineering Week is coordinated by Calmast WIT's award winning STEM (science, technology, engineering and maths) outreach centre. Calmast is working with the local authorities and other bodies to create a European science region. The centre was established to coordinate all outreach activity in these areas and has become the most successful centre of its kind in Ireland. There are 2,000 places available in Engineering Week 2012 and it is only one of several events serving schools in the Southeast offered annually. Scifest Waterford will run on the 25<sup>th</sup> April offering secondary schools the opportunity of exhibiting projects where the emphasis is on participation rather than competition. The Bealtaine Festival of Outdoor Science celebrates our living earth every May (19<sup>th</sup> – 27<sup>th</sup> in 2012) and includes International Day for Biological Diversity (May 22<sup>nd</sup>). Local authorities, government agencies and NGOs work together to introduce participants to the natural heritage of the Southeast region. It was listed in the Guardian's list of the top 10 events in the world for Biological Diversity Day in International Year of Biodiversity in 2010. ([www.livingearth.ie](http://www.livingearth.ie)).

Waterford Science Week takes place in November when top international and national scientists and science presenters join local presenters in bringing all areas of science alive for all ages. Events are also held in towns around the region. Typically the festival would offer over 60 sessions and cater for over 7,000 participants. Maths Week Ireland is Ireland's largest STEM festival (participation in 2011 in excess of 120,000) and the leading festival of its kind in the world. It was established and is coordinated by Calmast and is a cooperative effort with partners all across Ireland. It will run in 2012 from 13<sup>th</sup> – 21<sup>st</sup> October. (see [www.mathsweek.ie](http://www.mathsweek.ie)). As 2012 sees Dublin crowned European City of Science Calmast will be engaged in several extra initiatives in Dublin this summer to bring STEM to thousands of visiting scientists and the public. Calmast was also a key player in the establishment and delivery of the first Robert Boyle Festival in Lismore in 2011. Now the centre is working on the creation of Ireland's first science summer school – the Robert Boyle Summer School in Lismore in July. The centre has won several awards regional, national and international including being the only Irish recipients of the Descartes Prize, the prestigious EU award for Science Communication.

More information: [www.calmast.ie](http://www.calmast.ie).

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