



## SciFest@SFI Discover 2013 – Award



### **GRAND AWARD – Overall winner of SciFest 2013**

#### **SciFest@SFI Discover 2013 Intel ISEF Award.**

Trophy and an all-expenses-paid trip for the student(s) and their mentor to represent Ireland at the Intel International Science and Engineering Fair (ISEF) in Los Angeles in May 2014. *Sponsored by SFI Discover and Intel Ireland.*

**Student:** Paul Clarke

**School:** St Paul's College, Sybil Hill, Raheny, Dublin 5

**Title of Project:** A Polynomial Time Algorithm for the Undirected Hamiltonian Cycle Problem

**Teacher Mentoring Project:** Dr Brian Smyth

### **Travel Award.**

An all-expenses-paid trip for the student(s) and their mentor to attend the Long Night of Science in Berlin in May 2014. *Supported by the Department of Foreign Affairs.*

**Student:** Conor Foy

**School:** Coláiste Chiaráin, Croom, Co. Limerick

**Title of Project:** To Design and Manufacture a Device to Improve the Timing among Crew in a Rowing Boat

**Teacher Mentoring Project:** Edel Farrell

### **Irish Science Teachers' Association STEM Award. Trophy**

**Student:** Conor Begley

**School:** Coláiste Rís, Chapel Street, Dundalk, Co. Louth

**Title of Project:** E.W.O.C.H<sub>2</sub>S – Early Warning of Concentrated Hydrogen Sulfide

**Teacher Mentoring Project:** Evan Markey

### **Special Chemistry Student Award. Trophy. Sponsored by PharmaChemical Ireland.**

**Students:** Michaela van der Walt, Ailish Breathnach

**School:** Dominican College, Taylor's Hill, Galway

**Title of Project:** Trihalomethanes in Irish Drinking Water

**Teacher Mentoring Project:** Dee King

### **Special Chemistry School Award.**

Set of laboratory equipment. *Sponsored by Lennox Laboratory Supplies.*

**School:** Dominican College, Taylor's Hill, Galway

**Teacher:** Dee King

### **MU ALPHA THETA Award**

Certificate awarded by the MU ALPHA THETA Association to the most challenging, original, thorough, and creative investigation of a problem involving mathematics accessible to a high school student.

**Student:** Paul Clarke

**School:** St Paul's College, Sybil Hill, Raheny, Dublin 5

**Title of Project:** A Polynomial Time Algorithm for the Undirected Hamiltonian Cycle Problem

**Teacher Mentoring Project:** Dr Brian Smyth

### Yale Science and Engineering Association Inc. Award

A formal award certificate and a pewter medallion awarded to the most outstanding project exhibiting in the areas of Computer Science, Engineering, Physics or Chemistry.

**Student:** Conor Foy

**School:** Coláiste Chiaráin, Croom, Co. Limerick

**Title of Project:** To Design and Manufacture a Device to Improve the Timing among Crew in a Rowing Boat

**Teacher Mentoring Project:** Edel Farrell

### RIOCH Sustainable Development Award

Certificate presented to the student whose research has demonstrated the principles and technical innovations that offer the greatest potential for sustainable development

**Student:** Elaine Looby

**School:** Blackwater Community School, Lismore, Co. Waterford

**Title of Project:** Biofuel Production from Lignocellulose – The Irish Story

**Teacher Mentoring Project:** David King

### SciFest@SFI Discover 2013 Excellence in STEM Awards

Presented to:

Venue	School Name	School Address	Student 1	Project Title
CIT	Scoil Mhuire Gan Smal	Blarney, Co. Cork	Lisa Higgins	Travel Safe
DIT	Skerries Community College	Skerries, Co. Dublin	Tom Mc Donald	Coastal erosion in Skerries
DkIT	Coláiste Rís	Chapel St. Dundalk Co. Louth	Conor Begley	Early Warning of Concentrated Hydrogen Sulphide Gas
ITTral	Mercy Mounthawk Secondary School	Tralee	T Darragh Clark, Colin McDaid, Diarmuid O Connor	The anaesthetic effect of natural plant oils on goldfish
LITipp	Presentation Secondary School	Thurles, Co. Tipperary	Rachel Byrne, Aoife Ryan	Amplitude of Accommodation of Students' Eyes
LIT	Colaiste Chiarain	Croom Co. Limerick	Conor Foy	To design and manufacture a device to improve the timing among crew in a rowing boat
GMIT	Dominican College, Taylor's Hill	Taylor's Hill, Co. Galway	Etonam Glavee, Kíla Vallely, Anna Illyuk	Mussels as an Indicator of Water Quality
ITB	St. Paul's College	Raheny, Dublin 5	Paul Clarke	A Polynomial Time Algorithm for the Undirected Hamiltonian Cycle Problem
AIT	St. Mary's Secondary School	Edenderry, Co. Offaly	Robert O'Reilly, Triona Walsh	A Boat ..... Float?

<b>ITC</b>	Avondale Community College	Rathdrum, Co. Wicklow	David Fleming, Conor Windsor	The Calving Alarm
<b>ITS</b>	Jesus & Mary Secondary School	Enniscrone, Co. Sligo	Eamonn Sweeney	'The effects of a metronome on quality of CPR delivered by untrained bystanders'
<b>ITT</b>	Sutton Park School	St. Fintan's Road, Sutton, Dublin 13	David Joyce, Cherie O'Keeffe, Wuraola Arisekola	Using Lenz's law to improve mountain road safety
<b>LyIT</b>	Colaiste Cholmcille	Ballyshannon, Co. Donegal	Dallaire Daily, Sara Ward, Brenna Daily	How music affects your physical performance
<b>WIT</b>	Blackwater Community School	Lismore, Waterford	Elaine Looby	Biofuel Production from lignocellulosic compounds- The Irish Story
<b>Derry</b>	Lumen Christi College	Bishop Street Derry, BT48 6UJ	Donna Harkin, Sinead Harkin	Supercool Physics

## SciFest@SFI Discover 2013 Excellence in Chemistry Awards

Presented to:

Venue	School	Address	Student/s	Project Title
<b>AIT</b>	Tullamore College	Riverside, Tullamore, Co. Offaly	Daragh Fogarty	To P or not to P - An Investigation into Phosphorus and Renal Dialysis Patients
<b>GMIT</b>	Dominican College	Taylor's Hill, Co. Galway	Ailish Breathnach, Michaela van der Walt	Trihalomethanes in Irish Drinking Waters
<b>Derry</b>	Lumen Christi College	Bishop Street Derry, BT48 6UJ	Rebecca Doherty, Emmanuella Akhionbar, Aisling Mc Corkell	Our Acidifying Oceans