



Irish
Science
Teachers'
Association

Éolúioí
na hÉireann



ISTA 54th ANNUAL CONFERENCE 8th – 10th APRIL 2016
LIMERICK INSTITUTE OF TECHNOLOGY & THE STRAND HOTEL
Science Education in Ireland – New Frontiers!

Friday 8th April 2016

Venue: – The Strand Hotel, Limerick

- 17.00 – 19.00 **Registration**
- 18.30 – 19.30 **President's reception:** Tea / coffee and biscuits.
- 19.30 – 20.00 **Welcome and official opening**
- 20.00 – 21.00 To catch a comet, Part 1
Mark McCaughrean, Senior Science Advisor in the Directorate of Science & Robotic Exploration at the European Space Agency
- 21.00 – 23.00 Buffet Supper and Music

Saturday 9th April 2016

Venue: – Limerick Institute of Technology

- 8.45 – 9.30 **Registration**
- 9.30 – 10.20 To catch a comet, Part 2
Mark McCaughrean
- 10.30 – 11.00 *Plenary Sessions 1*
Molecular and cell biology and potential treatments for diseases
Patrick Kiely
Crystal engineering
Mike Zarorotko
Science on Stage
David Keenahan, Eilish McLoughlin and Paul Nugent IoP
The brain science of learning and its applications in the classroom
William O'Connor
- 11.00 – 11.20 *Tea/Coffee*
- 11.20 – 12.00 Educating the innovators of the 21st century
Eric Mazur, Harvard University
- 12.10 – 13.00 *Workshop Sessions 1*
Molecular biology experiments for classrooms workshop
Robert Schwarmborn, UCD
Chemistry and the Environment
David Sutton, LIT
Introduction to online RSC resources
RSC
Inquiry in the Physics Lab.
Leah Wallace, LIT
Bringing the world's biggest robotic telescope into your classroom
Liverpool Space Observatory
Evidence in school learning
Stuart Naylor
SEAI Energy workshop
Castel
Teaching enquiry through Mysteries Incorporated
TEMI
Gross germs and bizarre bacteria
SSPC
Laboratory safety
Health and Safety Authority

- 13.00 – 13.50 *Lunch*
- 13.50 – 14.30 Pecha Kucha session on Transition Year Science
(Something you will be able to do in your class on Monday!)
- 14.40 – 15.10 *Plenary Sessions 2*
BioMolecules from the sea
Danny Walsh
Nanotechnology
David Katz
Wrapping light around a hair
Eric Mazur
Nature of Science
Sibel Erduran
- 15.20 – 16.10 *Workshop Sessions 2*
Molecular biology experiments for classrooms workshop
Robert Schwarmborn, UCD
Chemistry and the Environment
David Sutton, LIT
Introduction to online RSC resources
RSC
Inquiry in the Physics Lab.
Leah Wallace, LIT
Bringing the world's biggest robotic telescope into your classroom
Liverpool Space Observatory
Assessing inquiry skills in science
Castel
Teaching enquiry through Mysteries Incorporated
TEMI
Gross germs and bizarre bacteria
SSPC
Laboratory safety
Health and Safety Authority
- 16.10 – 17.10 Inspiring the scientists and engineers of the future
Amber Gell, NASA
- 17.10 – 17.40 ABM

Sunday 10th April 2016

Venue: – The Strand Hotel, Limerick

- 10.00 – 10.30 Update on senior science syllabi
Anna Walsh, NCCA
- 10.30 – 11.30 Chemistry magic show
David Katz
- 11.30 – 11.45 *Tea/Coffee*
- 11.45 – 12.45 The animal magic road show
Animal Magic



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