



Irish Science Teachers' Association

Éolaití na hÉireann

# ISTA 53<sup>rd</sup> ANNUAL CONFERENCE 27<sup>th</sup> – 29<sup>th</sup> MARCH 2015

## UNIVERSITY COLLEGE CORK

### SCIENCE EDUCATION AT NATIONAL AND INTERNATIONAL LEVEL



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#### Friday 27<sup>th</sup> March 2015

- 5.00 - 9.00 **Registration** – Kingsley Hotel, Cork
- 6.30 – 7.30 **Welcome Reception:** Tea / coffee and biscuits.
- 7.30 – 8.00 **Welcome by Lord Mayor of Cork.**
- Official Opening by Professor Paul Ross**, Head of College of Science, Engineering and Food Science, UCC
- 8.00 – 9.00 *Exploring the Biological Themes of the Galapagos Islands: Using the environment to Teach Science*
- Professor Bill McComas**, Parks Family Professor of Science Education, University of Arkansas, USA.
- 9.00 – 12.00 Buffet Supper and Music

#### Saturday 28<sup>th</sup> March 2015 \*

- 2.00 – 2.45 *Woodland structure and biodiversity: Understanding the effects of forest management on bird ecology*  
**Prof John O'Halloran**, UCC
- RSC Lecture: *Scratching the Surface – Solid catalysts*  
**Prof. Martyn Pemble**, UCC
- The last spinning jelly in Ireland.*  
**Keith Gibbs**, Queen's College, Taunton, UK.
- Wondering about the Phys-Chem course? Your questions answered!*  
**Dr Fiona Desmond**, State Examinations Commission.
- 2.45 – 3.30 **"Drop In" Workshops and Exhibitions**
  - ICASE / UCC PROFILES Workshop - **Simon Hill**.
  - PDST Physics, Chemistry and Biology Workshops - **PDST team**.
  - Forensic Science Workshop- **Dr Mila Pravda**, UCC, **Elena Setterfield**, UK and **Marge Anderson**, USA.
  - Science on Stage Workshop - **Science on Stage team**.
  - DCU Workshop on IBSE - **Dr Odilla Finlayson** and team.
  - UL Nature of Science Workshop - **Prof Sibel Erduran** and team.
  - Tyndall Solar Energy Workshop - **UCC and CIT team**.
  - Exploring Electronics Workshop - **Cork Electronics Industries Association, CIT and UCC**.
  - Spectroscopy in a Suitcase Workshop. **UCC / CIT**

#### Saturday 28<sup>th</sup> March 2015 \*

- From 8.30 am **Registration** in the Kane Building, UCC
- 9.00 – 9.45 *Beaks, the Beagle, Darwin, Divinity and other Misconceptions about Evolution and its Nature*  
**Prof. Bill McComas**, Arkansas, USA.
- The chemistry behind the new practical work in the Leaving Certificate Chemistry syllabus.*  
**Stephen Stokes**, Chemistry Dept. UCC.
- An attempt to clear up some common errors in physics*  
**Rory Geoghegan**, Editor ISTA journal SCIENCE.
- 9.45 – 10.30 *A gut feeling about stress and the brain.*  
**Prof John Cryan**, UCC
- Introduction to oil refining and its role in energy delivery.*  
**Michael King**, Whitegate Oil Refinery.
- Gyroscopes and Boomerangs*  
**Dr Hugh Hunt**, University of Cambridge, England.
- 10.30 – 11.00 **Tea / Coffee Exhibitions**
- 11.00 – 12.30 **ICASE Symposium – Science Education at National and International Level**  
This symposium will build on the work of the Hyland Report on Science Education and help the ISTA to plan for the development of science education in Ireland.
  - **Prof Teresa Kennedy**, University of Texas at Tyler, USA and President of ICASE.
  - **Dr Rob Toplis**, University College London Institute of Education, UK.
  - **Hilary Rimbi**, St Andrews College, Dublin and International Baccalaureate.
  - **Kyran Johnson**, PharmaChemical Ireland.
  - **Prof. Jack Holbrook**, University of Tartu, Estonia and Past President ICASE.
  - **Mary Mullaghy**, Eureka Secondary School, Kells, Scientix Ambassador.
- 12.30 – 2.00 **Lunch and Exhibitions (open until 5.30)**

- 3.30 – 4.15 Boole 200 Lecture Sponsored by SFI Discover:  
*Stars in their eyes – "Earth and Space"*  
**Prof. Paul Callanan**, Dept of Physics, UCC.  
The lecture will be preceded by a brief presentation from the winning team from the Cork region of the CanSat competition.
- 4.15 – 5.00 **ABM** (The ABM will be preceded by the presentation of the Institute of Chemistry of Ireland Gold Medal. )
- 6.15 – 7.00 **ISTA Mass** in Kingsley hotel.
- 8.00 – 8.30 **ISTA President's Reception**
- 8.30 – 10.30 **Conference Dinner / Presentations.**
- 10.30 – 12.00 **Musical entertainment**

#### Sunday 29<sup>th</sup> March 2015

- 8.00 – 9.00 **Sunday service** St Finbarre's Cathedral
- 10.00 – 11.00 *The Magic of Soap Bubbles*  
**Dr Cyril Isenberg**, University of Kent, UK
- 11.00 – 11.30 **Tea / Coffee**
- 11.30 – 12.30 *The Magic in Chemistry*  
**Randal Henly, John Daly, Dr Declan Kennedy**
- 12.30 – 1.30 **Lunch** in the Staff Restaurant, UCC

\* Science for Primary Teachers will take place in the Electrical Engineering Building, UCC on Sat. 28<sup>th</sup> Mar. 9.30am – 4.30pm. See [www.lifetimelab.ie](http://www.lifetimelab.ie) for details.



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