



**ISTA 61<sup>st</sup> ANNUAL CONFERENCE**  
**31<sup>st</sup> March – 1<sup>st</sup> April 2023**  
**TUS Moylish Campus, Limerick.**  
*“Science Education for a Sustainable Future”*



**Friday 31<sup>st</sup> March 2023**

Venue: – The Harris Suite, Strand Hotel, Limerick

- 19.15 – 19.30 **Welcome address**
- 19.30 – 20.30 **Adventures in the Solar System**  
*Prof. Caitriona Jackman, School of Cosmic Physics – Astronomy & Astrophysics, Dublin Institute for Advanced Studies, Dunsink Observatory*
- 20.30 – 21.00 **Light Supper**

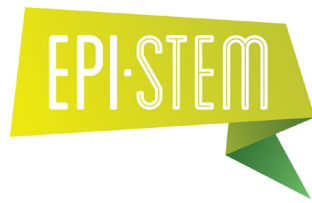
Venue

**Saturday 1<sup>st</sup> April 2022**

Venue: TUS Moylish Campus, Limerick. V94 EC5T

- 08.30 – 09.00 **Registration**
- 09.00 – 09.10 **Welcome address**  
*Prof Vincent Cunnane, President TUS* Millennium Theatre **MT**
- 09.10 – 09.45 **EcoEd 4 All Project**  
*Duncan Stewart, Presenter Eco Eye on RTE* **MT**
- 09.45 – 10.20 **Ireland’s Weather and Climate: A Journey Through Time**  
*Evelyn Cusack, Head of Forecasting, Met Éireann* **MT**
- 10.30 – 11.10 **Concurrent Sessions**
- 1. Unravelling the Universe from Earth and Space**  
*Dr. Claudia Mignone, National Institute of Astrophysics, Rome* **4A01**
- 2. The role of forests in mitigating climate change**  
*Prof Ken Byrne, Department of Biological Sciences, UL* **3A01**
- 3. Science Teacher CPD: Releasing The Imagination For Sustainability (an Epi-Stem HEA CPD Resource Project),**  
*Dr. Geraldine Mooney Simmie, Epi-Stem, UL* **3A02**  
*Tara E. Ryan and Martha Cosgrave*
- 4. Building Eco-Friendly Materials One Atom At A Time**  
*Prof. Damien Thompson, Professor of Molecular Modelling, Director of SSPC* **3A03**
- 11.10 – 11.30 **Break: Tea/Coffee in the Exhibition Area**
- 11.30 – 12.10 **Concurrent Sessions**
- 1. Power Up Your Pedagogy,**  
*Bruce Robertson, Author of ‘The Teaching Delusion’ trilogy and ‘Power Up Your Pedagogy: The Illustrated Handbook of Teaching* **4A01**
- 2. Entry into STEM careers of tomorrow: supporting gender equality**  
*Dr Regina Kelly, Lecturer in Science Education, Course Director of Undergraduate Science Education Programmes, UL* **3A01**
- 3. Drugs in Sport**  
*Dr. Jim Healy, Department of Applied Science, TUS* **3A02**
- 4. Osteoarthritis and Regenerative Medicine**  
*Dr. Niamh Fahy, Department of Applied Science, TUS* **3A03**
- 12.20 – 13.10 **Outreach Initiatives** **MT**
- SFI:** *Dr. Alison Boyle, Programme Manager, SFI*
- Analog:** *Dr. Louise McGrath, Senior Engineer*
- Epi\*Stem:** *Dr. Geraldine Mooney Simmie, Director of EPI•STEM*
- BD:** *(to be confirmed)*
- SSPC:** *Dr. Genco Guralp and Dr. Ebru Eren*
- RSC:** *Dr. John O’Donoghue, Royal Society of Chemistry*

- 13.10 – 13.50 **Lunch**
- 13.50 – 14.30 **My Favourite Resources: Junior Cycle** **MT**  
*Mary Gorey, St Joseph’s College, Borrisoleigh*  
*Dr. Lisa Darley, Loreto Secondary School, Navan*  
*Anthony Carolan, Ursuline College, Sligo*  
*Noel Cunningham, King’s Hospital School, Dublin*
- 14.40 – 15.20 **Workshops: Session 1**
- RSC Global Experiments as CBA projects** **8A706**  
*Dr. John O’Donoghue, Royal Society of Chemistry (RSC) Education Coordinator in Ireland*
- Medicine Maker** **8A703**  
*Dr. Martin McHugh and Dr. Genco Guralp, SSPC*
- Fantastic DNA (FDNA) activity, extracting DNA from a banana** **8A702**  
*Shannon Stubbs, Dr. Talia Arcari, Dr. Niamh Fahy, Dr. Muriel Grenon*
- What Happens Next?** **8A701**  
*David Keenahan and Paul Nugent, Institute of Physics*
- Flash! Bang! Fuel & reactions make & take workshop** **8A714**  
*Sean Kelleher and Kenneth O’Dea, PDST*
- Marine Medicine: What the Ocean Can Do for Your Health** **8A501**  
*Dr. Sarah Gundy, CÚRAM SFI Research Centre for Medical Devices*
- Climate Action through STE(A)M and CBA** **8A503**  
*Maya Gryesten Fields and Aileen Bright, Globe Ireland, Environmental Education Unit (An Taisce)*
- Climate Detectives investigates whether forests contribute to reducing global climate change** **8A107**  
*Dr. Conor Cahalane, SFI And ESERO Ireland*
- 15.30 – 16.10 **Workshops: Session 2**
- RSC Global Experiments as CBA projects** **8A706**  
*Dr. John O’Donoghue, RSC Education Coordinator in Ireland*
- Medicine Maker** **8A703**  
*Dr. Martin McHugh and Dr. Genco Guralp, SSPC*
- Fantastic DNA activity, extracting DNA from a banana** **8A702**  
*Shannon Stubbs, Dr. Talia Arcari, Dr. Niamh Fahy, Dr. Muriel Grenon*
- Act Now for the UN Sustainable Development Goals** **8A701**  
*Sean Kelleher and Paul Nugent, Science on Stage/PDST*
- Marine Medicine: What the Ocean Can Do for Your Health** **8A501**  
*Dr. Sarah Gundy, CÚRAM SFI Research Centre for Medical Devices*
- Climate Action through STE(A)M and CBA** **8A503**  
*Maya Gryesten Fields and Aileen Bright, Globe Ireland, Environmental Education Unit (An Taisce)*
- Exploring Micro:bit Radio Communication: A Celebration of Ireland’s First Satellite, EIRSAT-1** **Aula Maxima**  
*Irene Stone and Joe English, PDST*
- School-based STEM fairs- Making them work for students.** **3A01**  
*Dr. Billy Fleming, SciFest*
- 16.20 – 17.00 **Adventures in Inflammation Research,** **MT**  
*Professor Luke O’Neill, School of Biochemistry and Immunology, Trinity College, Dublin*
- 17.15 – 17.45 **ISTA Annual Business Meeting** **MT**
- Venue: – City View, The Strand Hotel, Limerick
- 19.30 – 20.00 **ISTA President’s reception (Prof. Luke O’Neill)**
- 20.00 – **Conference Dinner**



National Centre for STEM Education

