

# Conference of Analytical Sciences Ireland 2025

## Schedule of Presentations

### 2<sup>nd</sup> July – CASi Reception

16:30 – 18:30 – Tours of UCC and Science Studio (meeting point the Aula Maxima, UCC)

- 2 tours one at 4:30pm and other at 5:30pm
- There will be several short tours of the Science Studio between 4:30pm and 6pm to facilitate people doing both tours

18:30 – 21:30 – CASi Reception in the Aula Maxima

- Pre-registration for CASi from 6:30pm
- Welcome to the reception and CASi at 7pm (Welcome Video)
- Music from 7:15pm (traditional Irish – Uilleann Ceoil)
- Drinks and finger food reception at 7:30pm (served)
- Irish Dancing until 9:15pm

### 3<sup>rd</sup> July – CASi Registration and Welcome

08:30 – 9:30 – Registration and Welcome in the Devere Hall

- Registration and setup from 8:30am until 9:10
- Welcome at 9:10am (Chair) and Opening Address at 9:20am (Head of School, Chemistry, UCC)

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## Schedule of Presentations

**3<sup>rd</sup> July – Day 1**

### Session 1 – Green Analytical Chemistry

**Chair: John Clancy (Henkel)**

09:30 – 10:00	Ruth Godfrey	University of Swansea	Keynote	Sustainable Analytical Science: Future-Proofing Methods From Bench to Field
10:00 – 10:15	Christopher Kent	University College Cork	Speaker	Optimizing parameters for solar electrolysis of water to yield green H <sub>2</sub> using Broadband Acoustic Resonance Dissolution Spectroscopy
10:15 -10:30	Pankaj Kumar	Teerthanker Mahaveer University	Speaker	Graphitic Carbon Nitride-ZnO Nanocomposites as Efficient Cold Field Emission in Green Energy Applications
10:30 – 10:45	Jessica Smith Osorio	University of Limerick	Speaker	Advancing Quantification Standards: Coulometric Titration Validation for Potassium Hydrogen Phthalate
10:45 – 11:00	Niamh O'Mahony	University College Cork	Speaker	Rapid determination of the active pharmaceutical Ingredient (API) content of suspension formulations using Broadband acoustic resonance dissolution spectroscopy (BARDS)

### Session 2 – Biosensing and Sensors

**Chair: Micheal Scanlon (University of Limerick)**

11:30 – 12:00	Marion Kennefick	Johnson & Johnson	Keynote	An Overview of Host Cell Proteins in Manufacturing and Analytical Processes
12:00 – 12:15	Mohamed Sharafeldin	University College Cork	Speaker	Accessible Hepatitis C Virus (HCV) Diagnostics via Unamplified Nucleic Acid Detection
12:15 – 12:30	Atieh Mousavi	Tyndall National Institute	Speaker	Enabling early detection of ovarian cancer using a novel electrochemical sensing platform
12:30 – 12:45	Dinakaran Thirumalai	Dublin City University	Speaker	A sensitive non-enzymatic lactate sensor based on pulse electrodeposited nickel oxide on carbon electrode
12:45 – 13:00	Justina Ugwah	Tyndall National Institute	Speaker	A pilot study evaluating the performance of a prototype impedance sensor integrated on a biopsy needle for breast cancer detection

Tea/Coffee Networking and Poster Viewing 11:00 – 11:30

Lunch Networking and Poster Viewing 13:00 – 14:00

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**3<sup>rd</sup> July – Day 1**

### Session 3 – Forensic Analysis

**Chair: Elizabeth Gilchrist (University College Cork)**

14:00 – 14:30	Johnathan Spencer	Agilent	Keynote	Next Generation Forensic Screening using Accurate Mass High Resolution Mass Spectrometry
14:30 – 14:50	Anjan Roy	Coherent Corp (USA)	Invited	Applications of THz-Raman spectroscopy
14:50 -15:05	Yineng Wang	Tyndall National Institute	Speaker	Development of a mobile CE workstation with a C4D detector for rapid detection of organophosphates under CBRN field conditions
15:05 – 15:20	John Moran	Forensic Science Ireland	Speaker	Using a portable Near-Infrared Spectroscopy (NIRS) instrument with chemometrics for rapid drugs analysis: A recent evaluation at Forensic Science Ireland
15:20 – 15:35	John Moriarty	Department of Agriculture	Speaker	Veterinary Toxicology and Geochemical Risk

Tea/Coffee Networking and Poster Viewing 15:35 – 16:00

### Session 4 – Environmental Analysis

**Chair: Eithne Dempsey (Maynooth University)**

16:00 – 16:30	Brett Paul	University of Tasmania	Keynote	Taking Chromatographs out into the Field
16:30 – 16:50	Isabelle Ourliac-Garnier	Nantes University	Invited	Unravelling Sterol Biosynthesis in Fungi: Where Analytical Chemistry Meets Medical Mycology
16:50 – 17:05	Micheal Scanlon	University of Limerick	Speaker	Electrosynthesis of Free-Standing Conducting Polymer Thin Films at a Polarized Liquid Liquid Interface for Electroanalytical Applications
17:05 – 17:20	Dean Venables	University College Cork	Speaker	Chemical analysis of the atmosphere — Towards sensitive, fast, and lower cost spectroscopic sensors

Poster Session and Networking 17:30 – 19:00

Social Event (Mardyke Entertainment Complex) 20:00 – 23:00

# Conference of Analytical Sciences Ireland 2025

## Schedule of Presentations

**4<sup>th</sup> July – Day 2**

### Session 5 – Separation Science

**Chair: Donal Leech (University of Galway)**

09:30 – 10:00	Melissa Hanna-Brown	University College Cork	Keynote	Pills, Pressure, and Parting Ways: Innovative Separation in Modern BioPharma
10:00 – 10:20	John Lough	University of Sunderland	Invited	Eiroshell™-Enabled Extension to LC Method Development Screening Approaches
10:20 – 10:40	Ryan Osborne	Pfizer	Invited	An Approach to Method Development in SFC Leveraging Machine Learning for the Development of a Late-Stage Oncology Drug Candidate
10:40 – 10:55	Ilaria Neri	University of Naples Federico II	Speaker	Biomimetic chromatography-based investigation of environmental contaminants toxicity and biological barrier permeation

### Session 6 – Bioanalytical Chemistry

**Chair: Ciara MacHale (Eli Lilly)**

11:30 – 12:00	Mark Milford	Eli Lilly	Keynote	The Mystery of the Disappearing Excipient: An Analytical Case Study, Investigating a Reduction in Polysorbate Content in a Monoclonal Antibody Drug Substance
12:00 – 12:15	Ruchi Gupta	University of Birmingham	Invited	Hydrogel Lollipops for Early Detection of Cancer
12:15 – 12:30	Aine O'Brien	Maynooth University	Speaker	Chemoenzymatic Glycoengineering of Monoclonal Antibodies
12:30 – 12:45	Alan Ryder	University of Galway	Speaker	Polarized Excitation Emission Matrix (pEEM) spectroscopy for the rapid, non-destructive analysis of proteins
12:45 – 13:00	Somali Dhal	Tyndall National Institute	Speaker	Optical Evaluation of the Impact of Filtration on Diagnostic Salivary Components

Tea/Coffee Networking and Poster Viewing 10:55 – 11:30

Lunch, Networking and Poster Viewing 13:00 – 14:00

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**4<sup>th</sup> July – Day 2**

### Session 7 – Virtual Labs

**Chair: Aoife Morin (Dublin City University)**

14:00 – 14:30	Eric Moore	University College Cork	Keynote	Future Proofing Learning and Teaching through Gamification and VR Laboratories
14:30 – 14:50	Charlotte Hamblet	Labster	Invited	What If Your Toughest STEM Courses Became Your Students' Success Stories?
14:50 – 15:05	Janine Boetjes	University College Cork	Speaker	Development of a Virtual Reality Capillary Electrophoresis Experiment for Postgraduate Chemistry Education
15:05 – 15:20	Heather Myler	Beyond Labz	Speaker	How to Teach Scientific Inquiry with Beyond Labz

Tea/Coffee 15:20 – 15:50

Awards 15:50 – 16:30

Close of Conference 16:30 – 17:00



### CASi 2025 Awards List & Sponsor

- Agilent Presentation Gold Award
- Eli Lilly Presentation Gold Award
- Johnson and Johnson Presentation Gold Award
- RSC Separation Science Group Presentation Award
- Merck, Sharp and Dohme Poster Silver Award
- Particular Sciences Poster Silver Award
- Pfizer Poster Silver Award
- RSC Separation Science Group Poster Award
- Eurachem Ireland Poster Award
- Eurachem Ireland Poster Award
- Analytical Methods Poster Award
- Analyst Poster Award

