



**UCD SCHOOL OF CHEMICAL &
BIOPROCESS ENGINEERING**



SCBE 1ST ANNUAL SEMINAR DAY

**7 MARCH 2022
9AM - 5PM**

**ROOM L024 MASON HAYES THEATRE
SUTHERLAND SCHOOL OF LAW,
BELFIELD, UCD**

LIVE AT:

[https://ucd-ie.zoom.us/j/62355493729?
pwd=SmtQZkZSV0V3aUtvZUduS3I5WkQ3UT09](https://ucd-ie.zoom.us/j/62355493729?pwd=SmtQZkZSV0V3aUtvZUduS3I5WkQ3UT09)

PROGRAMME

09:00 REGISTRATION AND REFRESHMENTS

SESSION 1: Biopharmaceutical and Pharmaceutical Engineering - Chair Dr Veronica Sofianos

- 09:30 Opening session- Welcome by Professor Eoin Casey
09:40 Plenary Speaker – Assistant Professor Ioscani Jimenez del Val
10:10 Ioanna Tzani – 'Understanding the transcriptional response to endoplasmic reticulum stress in Chinese hamster ovary cells using multiplexed single cell RNA-seq'
10:25 Michael Stocker – 'Advanced Formulation of Co-processed Ionic Liquid Drugs via Spray Drying for Incorporation into Solid Dosage Forms'
10:40 Alan Foley – 'Sequencing of mitochondrial DNA from single CHO cells reveals widespread heteroplasmy'

10:55 MORNING REFRESHMENTS AND NETWORKING

SESSION 2: Energy and Environment - Chair Dr Colin Clarke

- 11:10 Keynote Speaker – Professor Eoin Casey
11:40 Matin Saddiqi – 'Smart Management of Combined Sewer Systems together with End-of-pipe Treatment Plants'
11:55 Ali Ekhtiari – 'Green Hydrogen in Gas Pipelines & the End-Users Limits'
12:10 Burcu Akkoyunlu – 'Membrane bioreactors to produce polyhydroxyalkanoate (PHA) from CO₂'

12:25 1st Annual SCBE Seminar Day Group Photo

13:00 LUNCH

SESSION 3: Advanced Materials Engineering - Chair Dr Roderick Jones

- 14:00 Keynote Speaker – Professor Niall English
14:30 Jhimli Paul Guin – 'Degradation of an Organic Dye in Water Using Visible Light Photocatalysis'
14:45 Rehan Anwar – 'Designing nano-additive for Limestone based thermochemical energy storage to improve cycling performance'
15:00 HaoLun Wu – 'Molecular-dynamics simulation of proteins in external electric fields'

15:15 AFTERNOON REFRESHMENTS AND NETWORKING

SESSION 4: Biopharmaceutical and Pharmaceutical Engineering - Chair Dr Eoin Syron

- 15:45 Keynote Speaker – Associate Professor Colin Clarke
16:15 Maycou Soares Zamprognio – 'Characterization, Modelling and Optimization of the Cryopreservation and Revival of Mammalian Cells'
16:30 Apostolos Tsopanoglou – 'Next-gen glycoengineering: combining cellular and metabolic engineering to fine-tune mAb β 1,4 galactosylation'
16:45 Closing by Professor Eoin Casey
Award presentations

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