



**UCD SCHOOL OF CHEMICAL &
BIOPROCESS ENGINEERING**



SCBE 2ND ANNUAL SEMINAR DAY

**14 MARCH 2023
10AM - 4:30PM**

**UCD VILLAGE AUDITORIUM,
BELFIELD, UCD**

LIVE AT:

[https://ucd-ie.zoom.us/j/64575881695?
pwd=SEV1WG1MSGp2MmUrUzIzUzNVMWF6UT09](https://ucd-ie.zoom.us/j/64575881695?pwd=SEV1WG1MSGp2MmUrUzIzUzNVMWF6UT09)



PROGRAMME

10:00 **REGISTRATION AND REFRESHMENTS**

SESSION 1 - Chair Dr Veronica Sofianos

- 10:30 Opening session- Welcome by Assistant Professor Jessica Whelan
10:40 **Introduction to the Biopharmaceutical and Pharmaceutical Engineering Research Theme**
10:50 Mina Ghahremanzamani - Lectin-aided flow cytometry reveals a close correlation between cell surface and mAb glycosylation
11:10 Rehan Anwar - Upcycling natural Limestone waste for thermochemical energy storage by utilising tailored CaZrO₃ nanoadditives
11:30 Nethraa Kannan - Integrated control in pharmaceutical manufacturing
11:50 Mary Ajide - Structural, dynamical and dielectric properties of water in contact with TiO₂ surfaces via molecular-dynamics simulations
12:10 **2 nd Annual SCBE Seminar Day Group Photo**
12:20 **LUNCH & POSTER SESSION**

SESSION 2 - Chair Dr Recep Kaan Dereli

- 13:20 **Introduction to the Biopharmaceutical and Pharmaceutical Engineering Research Theme**
13:30 Niamh Keogh - The exploration of HEK293 cell line engineering strategies to optimize rAAV production for gene therapy application
13:50 Saba Aghdam - Development of approaches that enable demand response in wastewater treatment plants
14:10 Ronan Kelly - Scalable liquid phase RNA synthesis enhanced by membrane separation
14:30 Kamran Khammadoov - Assessment of green hydrogen technology deployment in a long term for large scale power production
14:50 **AFTERNOON REFRESHMENTS AND POSTER SESSION**

SESSION 3 - Chair Dr Ioscani Jimenez Del Val

- 15:20 **Introduction to the Advanced Materials Engineering Research Theme**
15:30 Alex Bogdanovic - Development of a platform for the purification of viral vector systems for the manufacture of vaccines and gene therapies
15:50 Keith Fenlon - The stability of monoclonal antibodies and their high galactose glycoforms
16:10 Closing by Assistant Professor Jessica Whelan'

AWARD PRESENTATIONS

- 16:20 SCBE Best Presentation and Poster Awards
SCBE Research Award
MacEolroy Energy Research Award



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