TIMETABLE for Freeze-Drying Seminar

Led by Biopharma Group & University of Cambridge

University of Cambridge - Department of Chemical Engineering and Biotechnology, Philippa Fawcett Dr, Cambridge CB3 0AS
"Freeze Drying: an Enabling Technology for Biomedical Engineering" Friday 17th June 2022

Start	End	Session	Title			Duration	Presenter
0900	0930		Arrival and registration				
0930	0945		Welcome and Introduction			15	Professor Roisin Owens
			Welcome, introduction to course presenters and the aims of the seminar.				University of Cambridge
Lab Se			Group A	Group B	Group C	1	
0945	1025	Lab1	Practical Demonstration of Freeze Dryer	Characterisation of Formulations for Freeze-Drying	Analysis of the Freeze-Dried Product	40	Freeze-Dryer Practical Demonstration
			Components and Systems on a benchtop freeze-dryer, User Interface features, how to run a cycle.	Practical Demonstration of Freeze-Drying Microscopy	Practical Demonstration of MicroPress analysis and other post-process characterisation methods		Stephen Jones Biopharma Group
1025	1040		Morning Break				
1040	1120	Lab2	Analysis of the Freeze-Dried Product	Practical Demonstration of Freeze Dryer	Characterisation of Formulations for Freeze-Drying	40	Characterisation of Formulations by FDM
			Practical Demonstration of MicroPress analysis and other post-process characterisation methods	Components and Systems on a benchtop freeze-dryer, User Interface features, how to run a cycle.	Practical Demonstration of Freeze-Drying Microscopy		Ian Blackham Biopharma Group
1120	1200	Lab3	Characterisation of Formulations for Freeze- Drying	Analysis of the Freeze-Dried Product	Practical Demonstration of Freeze Dryer	40	Analysis of the Freeze- Dried Product
			Practical Demonstration of Freeze-Drying Microscopy	Practical Demonstration of MicroPress analysis and other post-process characterisation methods	Components and Systems on a benchtop freeze- dryer, User Interface features, how to run a cycle.		Dr. Kevin Ward Biopharma Group
1200	1300		Lunch Break				
1300	1330	Pres1	Freeze Dried Conducting Polymer Scaffolds for Modelling Human Organs in Vitro				Prof Roisin Owens University of Cambridge
1330	1350	Pres2	Don't overlook the drying stage: a case study with ice-templated collagen scaffolds				Dr Malvika Nair University of Cambridge
1350	1405	Pres3	Development of a 3D in Vitro Model of the Neurovascular Unit (NVU) using a Conducting Polymer Device for Real-Time Monitoring			15	Chiara Barberio PhD University of Cambridge
1405	1420	Pres4	Building a 3D Bioelectronic Platform for Interrogating Idiopathic Pulmonary Fibrosis (IPF) and Related Co-Morbidities				Sarah Barron University of Cambridge
1420	1500	Pres5	Effect of Formulation and Process Parameters on the Lyophilised Product This presentation will discuss the influence of formulation ingredients on freeze-drying process parameters, and the effect of both formulation and cycle conditions on aspects of the lyophilised product.				Dr. Kevin Ward Biopharma Group
1500	1520		Afternoon Break				
1520	1620	Pres5	SMART technology and ControLyo (Live Lecture via Webinar) Software-based lyo cycle development and integration with controlled nucleation				Leslie Mather SP Industries
1620	1630		Question & Answer (Q&A) Session, Wrap-Up, Feedback and Take Home Messages A final Q&A session to cover any points raised during the seminar and lab sessions.				All