

Annual Knowledge PMTC

Advanced Technology Solutions
in Pharmaceutical Manufacturing



Norelee Kennedy is the Vice President Research and an Associate Professor of Physiotherapy in the School of Allied Health at the University of Limerick. She graduated from Trinity College Dublin with a BSc in Physiotherapy in 1999 and a PhD (2004) in the field of physiotherapy and rheumatology. She also has a Postgraduate Diploma in Statistics (TCD 2000) and a Postgraduate Certificate in Teaching and Learning in Higher Education (NUI Galway 2004). Alongside her academic leadership Norelee leads a successful programme research in the field of rheumatology/physiotherapy. To date she has been awarded almost €3 million in research funding from national and EU funders. Currently she leads a Health Research Board funded project (DIFA scheme 2018) examining the feasibility of a physiotherapist led behaviour change intervention to promote physical activity in people with rheumatoid arthritis. She is also part of a EULAR funded European wide group developing an educational programme for health professionals to promote physical activity in people with rheumatic and musculoskeletal diseases (RMDs). In 2018 Norelee was invited to sit on a EULAR European working group to develop recommendations for physical activity for people with RMDs. She also served on the EULAR Health Professionals committee (2014-2019).

Annual Knowledge F PMTC

Advanced Technology Solutions
in Pharmaceutical Manufacturing



Dr. Derval Farrell, Validation Lead, Novartis Ringaskiddy Ltd, Co. Cork
Derval Farrell has degree in Chemistry and Applied Chemistry from the National University of Ireland, Galway and a PhD in Organic Chemistry from the National University of Ireland, Galway. Derval has worked in the pharmaceutical industry (small molecule API) for 23 years, in the areas of Process development, Production, QA, QC, New Product Introduction and Cleaning Validation.

Annual Knowledge Forum PMTc

Advanced Technology Solutions
in Pharmaceutical Manufacturing



Dr. Rabah Mouras is a senior research fellow in pharmaceutical cleaning processes at the department of Chemical Sciences, University of Limerick. He is leading the strategic theme “pharmaceutical cleaning” within the centre. Rabah’s research interests are in the field of biophotonics and non-destructive optical metrology based on optical micro-spectroscopies (IR, Raman, Fluorescence, FTIR, CARS, SRS...) (more than 15 years of experience in the field). These techniques have a wide appeal in both biotechnology and pharmaceutical manufacturing and continue to prove their usefulness as process analytical technologies (PAT). Rabah has experience in leading projects and attracting funding and has secured over ~€870 k from different sources (IPPs, feasibility studies...) to fund his research

Annual Knowledge PMTC

Advanced Technology Solutions
in Pharmaceutical Manufacturing



Dr Akeem Olaleye is a Research Fellow at the University of Limerick (UL) within the Bernal Institute. He supports Industry-led research activity of the Confirm Centre for Smart Manufacturing in the areas of Multiscale Multiphysics Modelling, Design, & Optimization of continuous Processing of Pharmaceutical and Dairy Powders. He is responsible for executing and coordinating Industry-led projects and transferring knowledge/technology arising from research to industry partners. His research interests include optimizing particulate handling systems for dairy and pharmaceutical unit operations; experimental multiphase fluid-particle systems; advanced process modelling from first principle; computational fluid dynamics (CFD), and Discrete Element Modelling (DEM) of multiphase fluid-particle systems.

Annual Knowledge Forum PMTc

Advanced Technology Solutions
in Pharmaceutical Manufacturing



Dr Sandra Lenihan is a Lecturer in Chemical and Biopharmaceutical Engineering, CIT with industrial experience in pharmaceutical processing. She is also a Principal Investigator with the PMTC. Research interests include industrial-academic collaborations in pharmaceutical engineering, with particular focus on solid dosage processing from a modelling perspective.

Annual Knowledge PMTC

Advanced Technology Solutions
in Pharmaceutical Manufacturing

**TECHNOLOGY
CENTRE**
ENTERPRISE IRELAND
IDA IRELAND SUPPORTED

www.pmtc.ie

TECHNOLOGY
CENTRE
ENTERPRISE IRELAND
IDA IRELAND SUPPORTED

PMTC
Advanced Technology Solutions
in Pharmaceutical Manufacturing

www.pmtc.ie

TECHNOLOGY
CENTRE
ENTERPRISE IRELAND
IDA IRELAND SUPPORTED

**CORK
INSTITUTE
TECHNOLOGY**
TEICNEOLAÍOCH



Dr Krok graduated with a BSc degree in Organic Chemistry and an MSc degree in Chemical Engineering at the Faculty of Chemical and Food Technology (FCHPT-STU, Slovakia). He completed his PhD degree at Faculty of Mechanical Engineering (SjF-STU, Slovakia) in 2011 and for the next four years, he lectured and coordinated undergraduate and postgraduate students. From 2014 to 2016, Dr Krok spent two years at University of Surrey (UoS, United Kingdom) as a Marie Curie Fellow (EC FP7-IEF) in Prof. Chuan-Yu Wu research group and between 2016-2017 he worked at Research Center Pharmaceutical Engineering (RCPE, Austria) as a Senior Scientist. Dr Krok also supports market-focused applied research in Ireland between 2017-2019 at Cork Institute of Technology (CIT, Ireland) as Research Fellow. Currently, he is Marie Curie Fellow (EC Horizon2020) at CIT(Ireland) and Pfizer Newbridge (Ireland) focusing in development of a multidisciplinary approach which will allow predicting the final properties of bilayer tablets producing by a dry granulation process.

Annual Knowledge F PMTc

Advanced Technology Solutions
in Pharmaceutical Manufacturing



Kieran Coffey leads the Technology Innovation Centre at Pfizer Newbridge which is a small-scale manufacturing and development facility. The Pfizer Newbridge site specialises in complex oral solid dose formulations and has a successful history over twenty-five years in delivering products to patients across the globe. Kieran has 20 years' experience in process scale-up, tech transfer, process development and optimisation. He has been involved in the introduction and development of several pipeline products and the manufacture of material for clinical supply, as well as providing technical support to commercial products. Kieran graduated with a BSc. in Analytical Science from Dublin City University and a GradDip in Chemical Engineering from the University of Limerick.

Annual Knowledge F PMTc

Advanced Technology Solutions
in Pharmaceutical Manufacturing



Fearghal O'Hare is the product owner for IMR's Workplace Knowledge System, IMR's Enterprise Knowledge Management platform. Fearghal manages the WKS platform development as part of broader responsibility for Software Engineering at IMR. Leading a talented and experienced team of UX Designers, Software Developers and VR/AR Engineers the team helps IMR deliver cutting edge solutions to the manufacturing industry. Prior to IMR, Fearghal graduated from UCD with 1st Class MEng in Computer Science before spending 13 years in Intel Corporation, working in their highly advanced Fab manufacturing network in Ireland, China and the US as an automation solutions architect and developer before working with the Intel Labs R&D Group.

Annual Knowledge F PMTC

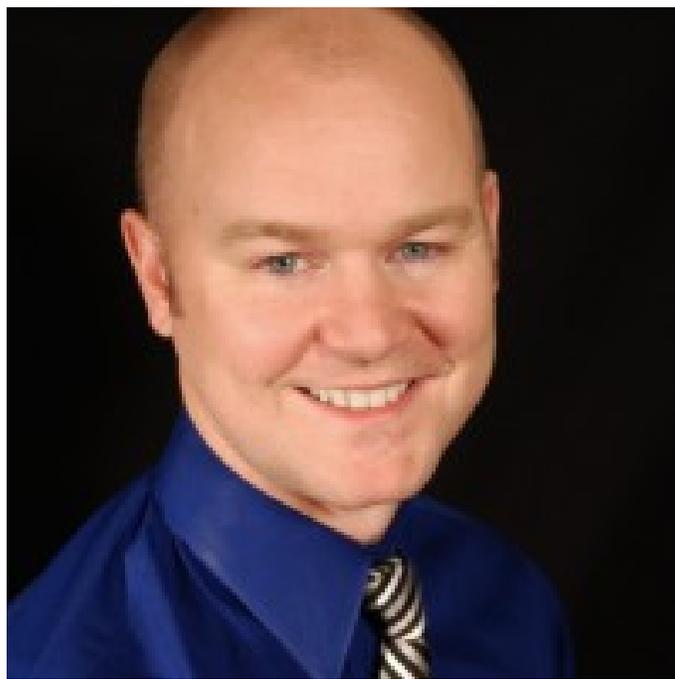
Advanced Technology Solutions
in Pharmaceutical Manufacturing



James Corbett B.Eng, is co-founder and Managing Director of Simvirtua Ltd., one of Ireland's longest established AR/VR development studios & consultancies. With 25 years experience in IT, James has delivered training workshops and lectures to government agencies and third level institutions including FAS, NUI, DCU, UL, LIT and others. He has presented on AR/VR at numerous conferences including AR/VR Innovate in 2017. Since 2013 Simvirtua has been building Virtual Reality apps and experiences for clients across the spectrum, from marketing to healthcare. Simvirtua, in partnership with VRC, is currently implementing several applications of Immersive Technologies at Takeda Ireland - a wholly owned subsidiary of Takeda Pharmaceutical Company Limited (TPC), the number one pharmaceutical company in Japan and one of the world's top 100 companies.

Annual Knowledge PMTC

Advanced Technology Solutions
in Pharmaceutical Manufacturing



Thom Strimbu serves as the CEO of Voxel REVOLUTION Consulting, a technology consultancy focused on the strategic implementation of enterprise augmented and virtual reality. He has guided pharmaceutical manufacturing clients through successful implementations of immersive technology in countries throughout Europe as well as the United States. He earned his BS in International Business from Schiller International University in Heidelberg and, in 2018, his MBA from UCD's Michael Smurfit Graduate Business School. He is an Industry 4.0 evangelist and frequent public speaker.

Annual Knowledge F PMTTC

Advanced Technology Solutions
in Pharmaceutical Manufacturing



Sarah Hayes is Director at Pharmaceutical Manufacturing Technology Centre (PMTTC)
Experienced leader with extensive technical, analytical and compliance experience in the Pharmaceutical sector.
I am passionate about delivering quality medicines, advancing improvements and innovation in the Pharma sector.
I strive to foster collaboration through identification of complimentary needs, capabilities and competencies among diverse group of stakeholders.