



## LyoLearn Webinars

### Dr. Kevin R. Ward, PhD



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Dr Kevin Ward is the Director of R&D at Biopharma Technology Ltd. (BTL), a small privately owned company founded in 1997 and based in Winchester, UK, that provides assistance with formulation and lyo-cycle development, offers training courses in freeze-drying technology and has developed two lyo-specific analytical instruments that are marketed worldwide.

Kevin has been in the world of freeze-drying since 1993. After completing his Ph.D. entitled Freeze-Drying: A rational approach to process development and product formulation using model polymeric proteins and drug microcarrier systems, he worked for Pfizer and as a Research Fellow on a UK government-sponsored vaccine delivery project before joining BTL in 2000. Since then, Kevin has worked with over 600 potential products, encompassing small molecules, polypeptides, proteins (native and recombinant), enzymes, antibodies, biomedical implants / constructs, PCR reagents and a range of micro-organisms (live, killed, attenuated and genetically modified). He has also developed a design of freeze-drying microscope and a novel thermal/impedance analyser for studying the critical behaviour of materials to assist in formulation development and lyo-cycle design.

Kevin has delivered over 80 training courses in freeze-drying technology to more than 2100 people in the USA, Europe and India. He continues to pursue pure and applied freeze-drying research in addition to his regular contract R&D and consultancy activities. Since June 2007, Kevin has chaired the Pharmaceutical and Healthcare Science Societys freeze-drying special interest group, whose primary remit is to produce monographs relating to the design, specification, engineering, validation and use of freeze-dryers and related equipment in the production of pharmaceuticals, biopharmaceuticals, vaccines and medical diagnostics