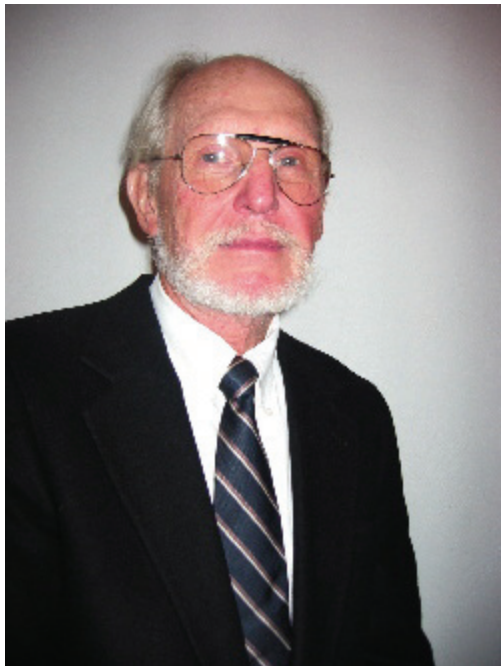




LyoLearn Webinars

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David "Ted" Sutherland gained his freeze-drying experience as Vice President of Engineering of the Virtis Company, Gardiner, New York. In the course of his more than thirty years with the company, he guided the design of both their research and industrial freeze dryers. He specified their operational requirements, designed to meet the requirements and participated in the marketing and selling of the freeze-dryers. Traveling worldwide he also saw to their installation and trouble shooting.

He is responsible for numerous innovations and holds a number of patents assigned to the Virtis Company. Prior to joining the Virtis Company he worked for the Advanced Products Division of the

Worthington Corporation designing air liquefaction turbo expanders. Mr. Sutherland is now active as a consultant in the freeze drying equipment field, as well as in the low temperature refrigeration field.

Mr. Sutherland earned a Bachelors degree in Mechanical engineering from New York University, a Masters Degree in Mechanical Engineering from Columbia University, as well as a Masters degree in Business Administration from Marist College. At Columbia he majored in thermodynamics and compressible fluid flow, with vapor cycle refrigeration and cryogenics as areas of special interest.