



Surfaces in
Biomaterials
Foundation

Surfaces in Biomaterials Foundation Open House 2020

Speaker Information:

Topic Title: Ethylene Oxide (EtO) sterilization alternatives for medical device applications

Abstract

For over four decades, EtO (Ethylene oxide) sterilization has been the dominant mode of sterilization in the medical device industry. Ever since EtO was moved to the list of known carcinogens in the late 1990's, there has been increased scrutiny over its usage as a sterilant. Alternative methods for sterilization have emerged and these efforts have gained momentum recently. New regulations being considered in both the US and Europe as well as the closure of 7 EtO facilities over the last 12 months have added additional incentives to shift the market away from EtO as the primary form of sterilization. This presentation will give an overview of the alternative sterilization technologies that are currently being considered for medical device applications.

Short Biography

Dr. Mallika Kamarajugadda is a Senior Principal Scientist in the Corporate Science and Technology group at Medtronic with expertise in materials research and selection in the areas of metals, surface modifications, thin films, characterization and materials structure-property relations. She has 20 years of engineering research and development experience with a track record of innovation and sharing of knowledge through publications in peer-reviewed literature. In her current role, she leads programs in materials that are critical to enable next generation medical devices and technology. She also partners with all of Medtronic's businesses as an internal technical consultant and researcher with subject matter expertise.