

High Voltage Materials and Testing

Dr. Nancy Frost, Gerome Technologies
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The focus of this session is the basic aspects of high voltage insulation materials for the novice. The fundamental aspects of insulation materials will be covered, including how to select materials, what properties are important and tests that are critical to performance.

The session will cover the key electrical insulation materials, including their properties and applications of various types of insulation. The major test methods and standards used in selecting and qualifying insulation systems will be discussed. It is intended that this session help the generator operator and/or management team understand the critical working aspects of electrical insulation materials.

Biography:

Dr. Nancy Frost is a Dielectrics Engineer working as Business Development Manager for Gerome Technologies, a fabricator based out of Menands (Albany), NY, as well as consulting. She has been active in the electrical insulation industry for over two decades, working with a variety of suppliers, manufacturers and service shops. She earned her Ph.D. from Clarkson University, where she managed the High Voltage Laboratory. She has given over 50 presentations and dozens of short courses in the area of insulation materials, aging phenomena and testing. Nancy has been active in several professional societies, including Past Chair of the IEEE PES EMC Materials Subcommittee working on standards, IEEE DEIS AdComm, as well as USA Technical Advisor for IEC TC 112 and NEMA IM6 (insulating materials group) activities.

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