KEYNOTE ADDRESS

POTENTIAL AND ACTUAL HIGH-TEMPERATURE DEGRADATION ISSUES ASSOCIATED WITH THE USE OF ALTERNATIVE FUELS

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This presentation will provide a general overview the use of current jet fuels (JP-5,7,8,10) and how the use alternative fuels compares. Alternative fuels in this context include less clean petroleum-derived fuels and those derived from coal or biomass (i.e., non-petroleum) through the Fischer-Tropsch process. Of specific focus will be high-temperature degradation issues of structural components. These issues include accelerated oxidation, hot-corrosion, halogen attack, and deposit-induced attack. The various factors affecting these modes of degradation will be summarized.