

ABSTRACT

This talk presents an overview of high temperature electronics applications and technology.

The talk is loosely divided into motivation and need for high temperature electronics, high temperature electronics applications, high temperature electronics technology candidates and qualifications, fundamental and engineering issues and a sampling of device performance and results.

Included in this talk is an overview discussion of distributed control systems. The emphasis of this talk is outlining the both the fundamental limitations and engineering considerations that need to be considered in order to achieve a robust, working high temperature electronics solution for a given application.

The talk covers technologies deemed suitable for high temperature electronics including extreme high temperature electronics

Concluding remarks and recommendations are also given at the the end of the talk.