Minnowbrook
Microelectronics

MB'22

Dear Colleagues,

The world of high reliability microelectronic devises is rapidly advancing as new materials and processes are developed to meet the demand for reliability at lower costs. This places a great burden on the supply houses, as the reliability of newer materials needs to be proven. And, in some arenas, we are observing a retrogression of quality and reliability, as the basic concepts of materials science and engineering are overlooked. This is where Minnowbrook '22 comes to the fore.

The reliability of hermetic device technology has been assured for decades via a multitude of testing scenarios - yet the new materials now in the field create new concerns. Hermetic devices have gradually proven their place, at a cost, and now the application of non-hermetic devices in rugged environments is being advanced to save time and funding. The non-hermetic materials, essentially polymers - both organic and nonorganic - need to be proven for their respective applications. Test Method 5011 of Mil Std 883 is **not** the proving ground for the non-hermetics.

Hence, there is a need to openly discuss some of the underlying or not even recognized problems of the newer materials and processes. These discussions/debates will be taking place at MB'22!!

In addition, the efficacy and remaining issues in Test Methods 1014 and 1018 require more attention - failure analysis/case histories are welcome for additional discussion, e.g. the problems with adsorption.

Since Minnowbrook is based on "new concepts in communication", it is closed, i.e there are no abstracts, written papers, forums, publications, etc. - just open technical discussion where we recall and refine some of the laws and principles of the basic science and engineering that we tend to forget.

So - mark your calendar for attending MB'22 this October and check your mail for the registration information from the Coordinator of MB'22, Tom Green.

Be Well,
Philipp wh Schuessler, Chairman of MB'22