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Vacuum measurement standards at KRISS and results of bilateral comparison between KRISS and NINVEST

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The Vacuum Measurement Lab at Korea Research Institute of Standards and Science (KRISS), Rep. of Korea, maintains primary standards as well as systems for calibration by comparison method. The KRISS primary standards can be used for the calibration purpose in the pressure range from $\sim 10^{-7}$ Pa to 133 kPa.

It is mainly categorized into manometers, static (volume, series) expansion systems, and dynamic expansion (orifice) systems. For bilateral as well as key comparison of these standards, KRISS has participated in the past where its standards have good degree of equivalence and hence international recognition, with other national standards like that of NMIJ, NIST, PTB, NPL (UK), etc. We also will discuss about vacuum gauges calibration methods and uncertainty analysis using vacuum standard system as primary standards and comparison systems.

We will also discuss about results of the bilateral comparison between KRISS and NINVEST (National Institute of Vacuum Science and Technology) in Pakistan. Two Capacitance Diaphragm Gauges were used as transfer gauges. The results were good agreement within uncertainty limited between two NMIs.

Author: Dr HONG, SEUNG-SOO (Korea Research Institute of Standards and Science)

Co-author: Dr SONG, HAN-WOOK (KRISS)

Presenter: Dr HONG, SEUNG-SOO (Korea Research Institute of Standards and Science)

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