ID: Type: **Oral**

# of infrasound metrology and testing at CEA

The level of confidence expected by the measurement produced by geophysical measurement chains is a guarantee of quality for the data that are processed in the subsequent analysis and the elements necessary for the resulting decision-making. The CEA's metrology activity in the infrasound field has historically contributed to the development of this confidence. The fields of low-frequency dynamic environmental metrology are not the most part covered by the international metrology organizations, responsible for materializing and ensuring the traceability of measurements to the International System of units, although this is a fundamental part of the guarantee of measurement control. In order to respond to this lack, the CEA has been developing for several years an R&D activity in metrology aimed at acquiring laboratories, standards and calibration methods designed to meet current and foreseen metrological challenging needs. This presentation will focus on CEA's metrology activity through its new measurement and testing facilities dedicated to infrasound sensors.

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Track Classification: Measurement Systems