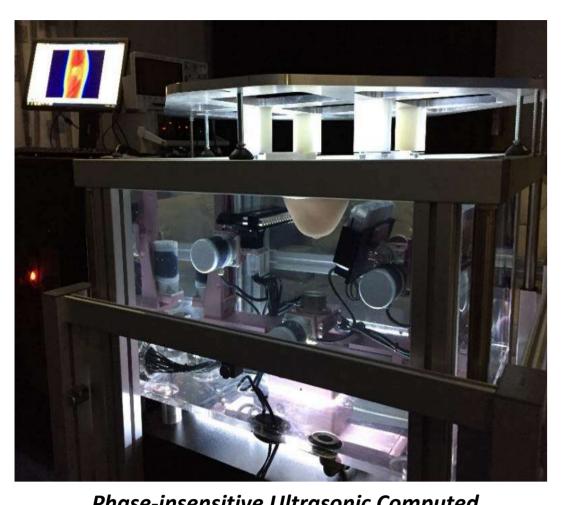
Acoustics, Ultrasound, Vibration and Underwater Acoustics

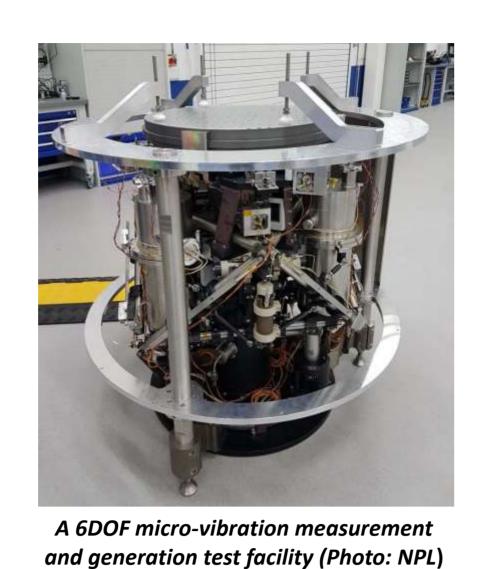
The Consultative Committee for Acoustics, Ultrasound and Vibration (CCAUV)

Global forum for NMIs on innovations, best practices and state of the art

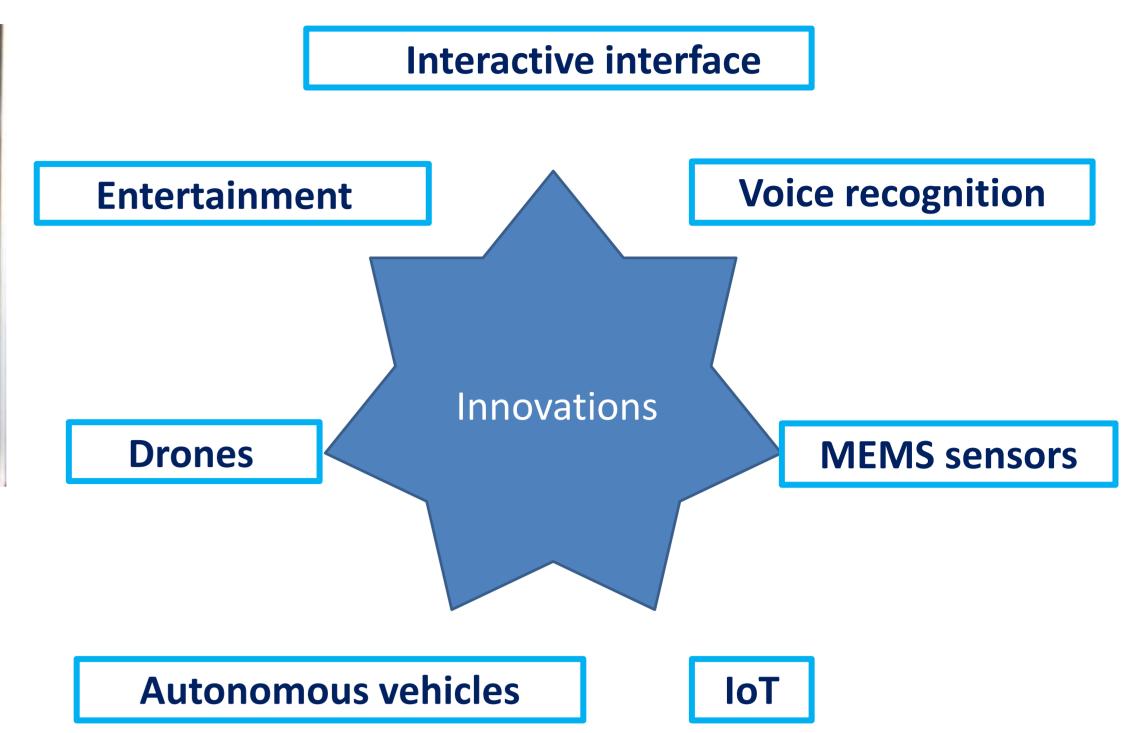
The CCAUV has organized Workshops and a NMI report for sharing information.







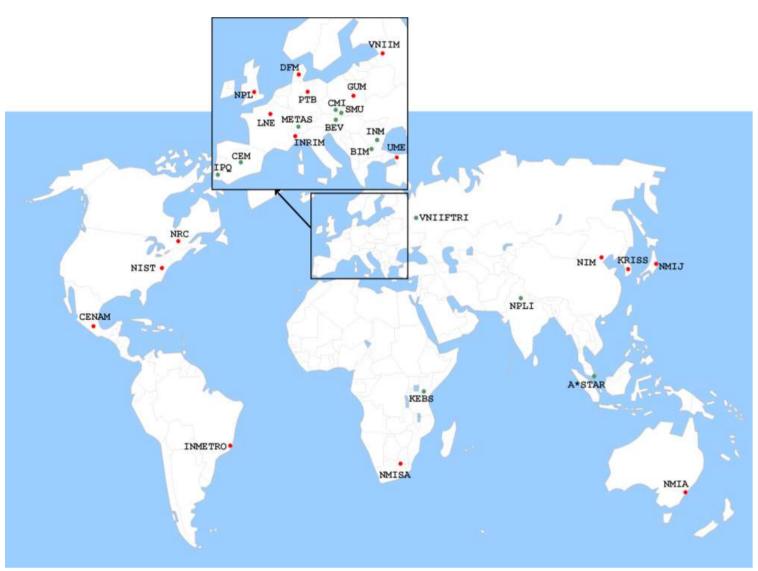
Low intensity shock acceleration exciter. Photo (NMIJ)



- Metrologia Focus Issue on "Metrology for Dynamic Measurements"
- CCAUV website: https://www.bipm.org/en/committees/cc/ccauv/
- CCAUV news and Open Access Policy

The CCAUV facilitates dialogue between NMIs and new and established stakeholders

Important CCAUV relationships with other international organizations:

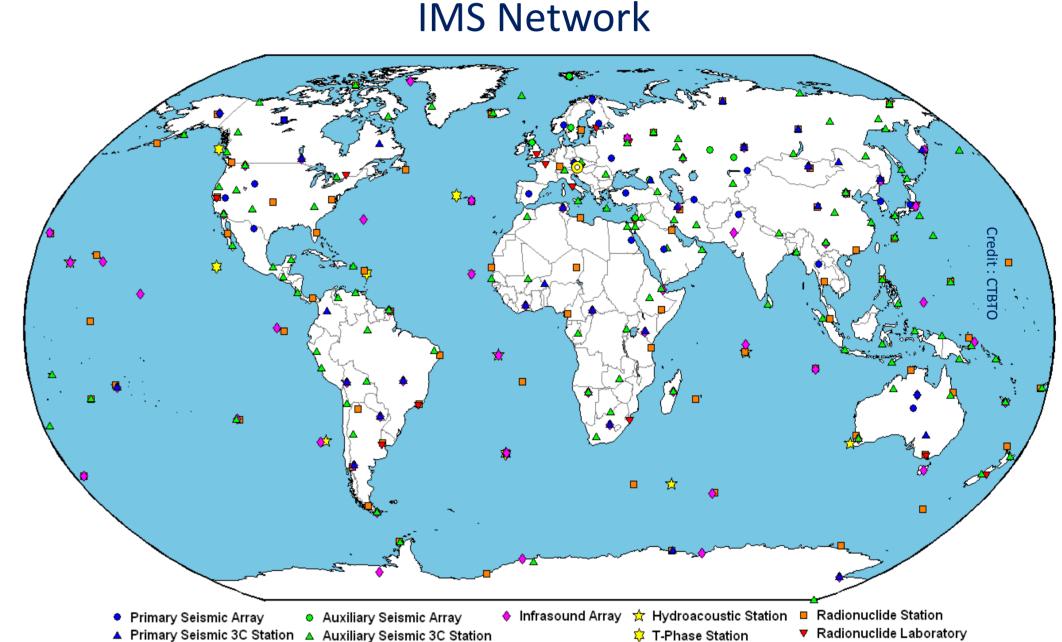


NMIs and DIs

- 17 members
- 14 observers
- The International Organization for **Standardization (ISO)**
- The International Electrotechnical **Commission (IEC)**







The Comprehensive Nuclear-Test-Ban Treaty Organization (CTBTO). Section (CTBTO)

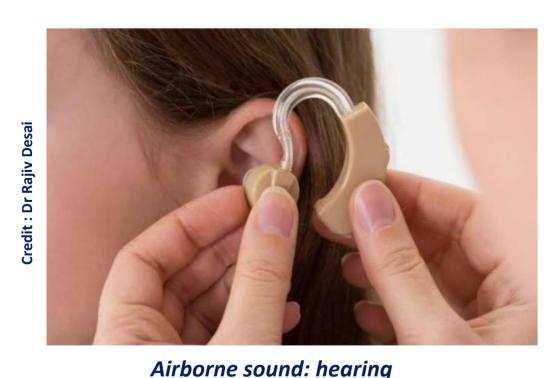
The relationship between the CCAUV and the CTBTO is developing and there is regular dialogue concerning the infrasound and low-frequency vibration traceability of its International Monitoring System (IMS).



Infrasound station (Photo: CTBTO)

The CCAUV works to improve the global comparability of measurement

Marine noise generated by cargo ships or industrial activity in sea water doubles each decade. It can be monitored using underwater acoustic techniques. Three dimensional measurements of ocean currents and temperature are important indicators of climate change.



Comparison of ultrasonic power using hydrophones

Global comparability of measurements for safety and health:

- Environmental monitoring
- Medical and diagnoses
- Occupational safety
- Machine testing
- Shock protection



Low-frequency vibration transducers are widely used for monitoring earthquakes (e.g. in the Global Seismographic Network)

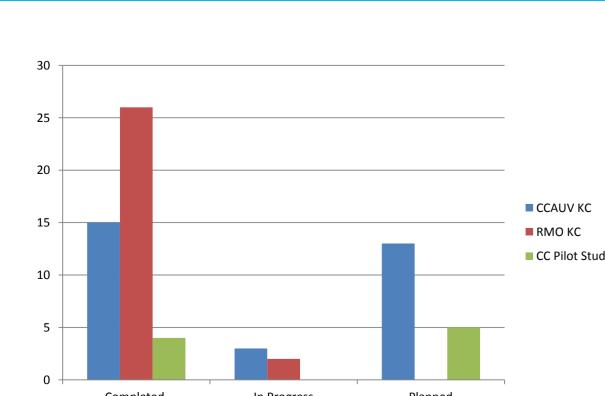


(Photo: Japan Automotive Research Institute)



mental health and wellbeing

CCAUV KCs and CMC Statistics



The planning process for KCs involves careful deliberation to optimize resource requirements needed to respond to the needs of its stakeholders.

Repeat CC KCs 10-year cycle.

CMC: 1174 CMCs of which 870 are linked to a KC supported by the CCAUV

