



COLLÈGE FRANÇAIS DE  
**MÉTROLOGIE**

## Latest CIM 2015 in Paris ... well done!

The International Metrology Congress (CIM) shows the **decisive contribution of metrology in industrial processes**. It also allows to discover **practical solutions for today and tomorrow's technologies**.

This event is an unlikely gathering of several worlds coexisting without necessarily speaking or understanding each others:

- . people of industry worried by their technical and economic day-to-day challenges,
- . sales manager who want to "sell",
- . experts asking disturbing questions like " what do you really want to do? ",
- . dreaming researchers fascinated by the quest for the infinite.

This is like "mixing oil and vinegar" with a small dose of French improvisation ... and yet it works ...

The CIM confirms indeed and once again its appeal and leading position in the field of measurement:

- **813 participants and exhibitors** took part in the Congress,
- **42 different countries** were represented, and **30% of participants came from abroad**, mainly from Europe but also from North and South America, Africa, the Middle East and Asia,
- 60 companies were exhibitors in the **Metrology Village** at the heart of the event,
- the **technical level** is excellent or satisfactory for 92% of participants,
- the **possibilities of application** are excellent or satisfactory in 72% of returns.

**Almost 180 lectures** have been presented on usual and news topics:

- great success for Uncertainties, Mechanical Challenges and 3D Trends sessions,
- « **Metrology 4.0** » **session with the interventions of American, English and German national laboratories** took place in a full room,
- many emerging topics on Water quality and Energy,
- finally, always a lot of interest in the round tables, especially Outsourcing of Metrology and Risk Management.

The CIM was concluded by the prestigious intervention of **Prof. Claude Cohen Tannoudji, 1997 Nobel Prize in Physics**, highlighting today necessary fundamental research which will generate new technologies in 10 or 20 years.

The Congress also confirmed that it appeals to all audiences in the field of measurement:

- **57% of participants are industrial users** of measurement in all types of sectors: analysis and metrology laboratories, equipment manufacturers etc.
- **30% are representatives of major national and international organisations**: the national laboratories of the large European countries, ministries, accreditation bodies, international organisations etc.
- **10% are academics or researchers**,
- 3% come from other backgrounds: hospitals, training organisations, consultants, the press etc.

The Collège Français de Métrologie, the event organiser, wishes to extend its warm thanks to everyone who attended and all the partners of the Congress:

- the Organising Committee: A+ Métrologie, Acac, Afnor Normalisation, BEA Métrologie, BIPM, Cetiati, EA, Euramet, Hexagon Metrology, Implex, LNE, Metas, NIST, NPL, Peugeot Citroën Automobiles, Trescal,
- the sponsors: A+ Métrologie, Cetiati, Hexagon Metrology, Implex, Metrologic Group and Wika,

- the institutional supports: the Ministry in charge of Industry and the Ministry of Culture.

### To fulfill your technical information related to CIM 2015

- The final texts of the lectures are available online here: <http://cfmetrologie.edpsciences.org/fr/>
- Outsourcing the metrology function is a recurrent topic. But until now discussions were about outsourcing the calibration of measuring instruments.  
A new question arises on **outsourcing the metrology function**. Should we keep or not the skill within the company? What are the limits and risks of a complete outsourcing?  
The round table brought together small companies, conscious of the importance of metrology without being able to pay for it; providers who already offer advices but will they remain close to the interests of their customers. And of course major companies who question regarding the new technologies and the skills they request?  
At the end of this round table, no straight answer, but exchanges that will continue to advance this debate.
- The conclusion of the intervention of **Prof. Claude Cohen Tannoudji, 1997 Nobel Prize in Physics**, on the topic of atomic clocks.  
*"Our ability to control and manipulate quantum systems (atoms , ions, electrons, molecules) has increased dramatically in recent decades.  
These advances have enabled the emergence of new areas of research that lead to new and unexpected applications. Most of these applications that affect our daily lives (transistors , lasers, MRI , internet) have not been programmed and appeared unexpectedly after advances in basic research.  
Piloting research solely for applications is short-sighted and dangerous for the future:  
- The technology that will be over in 10 or 20 years are based on the fundamental research carried out today ,  
- Technological breakthroughs make it very often obsolete existing technologies."*
- Find here <http://www.metrologie2015.com/press-releases-cim-2015.html> major topics of CIM 2015: metrology 4.0, additive manufacturing, health ...

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