

# Symposium to celebrate the centenary of the award of the Nobel Prize in Physics to **Charles-Édouard Guillaume**

Saturday 17 October 2020

On-line and at BIPM, Pavillon de Breteuil, Sèvres, France

09:30 – 13:00

This year will mark the centenary of the award of the Nobel Prize in Physics to Charles-Édouard Guillaume (1861-1938). He was born into a watchmaking family in Fleurier, Switzerland. He dedicated more than half a century to metrology through his work at the International Bureau of Weights and Measures (BIPM). His major study of the properties of nickel-iron alloys spanned more than twenty-five years and not only revolutionized geodesy measurements but also chronometry and precision horology; numerous applications still exist for these alloys. In 1915, he became Director of the BIPM, a position he held until his retirement in 1936.

He was awarded the Nobel Prize in Physics in 1920 *"in recognition of the service he has rendered to precision measurements in Physics by his discovery of anomalies in nickel steel alloys"*.

## Organizing Committee

Martin MILTON, Director of the BIPM,

Philippe RICHARD, Director of METAS (Switzerland) and Member of the International Committee for Weights and Measures (CIPM)

Jean-Louis DILLARD, great-grandson of Charles-Édouard Guillaume and President of the Fondation Charles-Édouard Guillaume

Céline FELLAG ARIQUET, BIPM

Richard DAVIS, BIPM

Chingis KUANBAYEV, BIPM



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**09:30 Opening of the Symposium**

Martin J. T. MILTON, Director of the BIPM

**09:45 Charles-Édouard Guillaume, from the family perspective**

Jean-Louis DILLARD, great-grandson of Charles-Édouard Guillaume and President of the Fondation Charles-Édouard Guillaume

**10:00 The BIPM and the Bureau des longitudes**

Martina SCHIAVON, University of Lorraine

**10:30** Discussion

**10:45 – 11:00** Break

**11:00 The legacy of Charles-Édouard Guillaume. Introduction**

Philippe RICHARD, Director of METAS (Switzerland) and Member of the International Committee for Weights and Measures (CIPM)

**11:15 Charles-Édouard Guillaume au Bureau international des poids et mesures**

Céline FELLAG ARIQUET, BIPM et Université de Lorraine

**11:45 1920: Charles-Édouard Guillaume and the Nobel Prize: the significance of Guillaume's application-oriented research versus relativity and quantum physics**

Jean-Philippe UZAN, Institut d'astrophysique de Paris et CNRS

**12:30** Discussion

**12:45** Conclusion, end of the Symposium

