Bureau International des Poids et Mesures

CCEM Celebrating 100 years

CCEM workshop on "Celebrating a century of progress in CCEM"

Date: 10 March 2027

Venue: Parc nautique départemental de l'Ile de Monsieur (close to BIPM)
4 rue de Saint Cloud, Sévres

Workshop Programme

8:30 Registration

9:00 Welcome and introduction to workshop by CCEM President Prof. Gert Rietveld

9:15 **Opening Keynote,** Nobel Laureate Prof. Klaus von Klitzing
"Electrical Resistance Metrology: From Practical Standards to Fundamental Constants"

10:30 Coffee break with posters from Young Scientist poster competition

11:00 **Part 1 – Start and early years of the CCE**

Lucio Fregonese (University of Pavia): The volt before the volt: Alessandro Volta's quantification and standardisation of electrical quantities in the context of 18th century physics"

Céline Fellag (BIPM): "The origins and establishment of the first Consultative Committee for Electricity"

Richard Davis (BIPM): "How the MKS system added the ampere as its fourth base unit and became the SI"

12:30 Lunch – with posters from Young Scientist poster competition

14:00 **Part 2 – Recent CCEM developments and future EM challenges**

Speaker TBC: "The quantum revolution in international electromagnetic metrology and the revised SI"

Stefano Lodetti (NPL): "The grand grid update"

No-Weon Kang (KRISS): "Advancing RF and microwave metrology: From past milestones to future frontiers"

3-5 min pitch of the Young Scientist poster winner

15:45 Tea break – with posters from Young Scientist poster competition

16:15 **Closing Keynote:** Nobel Laureate Prof. John Martinis: "Metrology of Quantum Information"

17:30 Closing of workshop, followed by a reception