INTERNATIONAL UNION OF PURE AND APPLIED PHYSICS

Activities Report (Nov 2025 – Sep 2026)

Commission C2: SUNAMCO

Symbols, Units, Nomenclature, Atomic Masses and Fundamental Constants

Presentation to the IUPAP Community

September 2026

Continuous Management & Engagement

Commission Officers

Chair: Daniel Varela Magalhães (Brazil)

Vice-Chair: Eric L. Shirley (USA)

Secretary: Richard J. C. Brown (UK)

Stephan Malbrunot-Ettenauer (Canada)

Yang Ji M (China)

Erkki Ikonen (Finland)

Pierre Clade (France)

Sebastian Ulbricht (Germany)

Venu Gopal Achanta (India)

Enrico Massa (Italy)

Yukiko Shimizu (Japan)

Jae-Hyuk Choi (Korea)

Roger Groves (Netherlands)

Annette Koo (BIPM)

Streamlined Communication

Focused online officer meetings and regular email consultation with all C2 members.

Member Engagement

Prompt distribution of key international documents for timely official responses.

Institutional Representation

Active, expert representation to JCGM, CCU, CODATA, and global metrology bodies.

Activities and Decisions at JCGM & CCU

JCGM Plenary

Leadership: Confirmation of Dr. Annette Koo (BIPM Director) as new Chair.

VIM4 Voting: Unanimous C2 vote in favor of the VIM4 Final Draft with editorial feedback.

Consultative Committee (CCU)

SI Brochure: Updated non-SI units section published in 9th Ed. (v4.01).

Core Terms: Task group work feeding into future editions of the VIM (WG2)

GUM Publications (WG1)

GUM-5:2026: New guide published featuring practical uncertainty examples.

Amendment 1: Formal treatment for nonlinearity in measurement models.

Digital Representation of Units (CODATA DRUM)

SI Reference Point v1.0

First stable release of the SI Digital Framework developed in close liaison with BIPM and CCU.

IUPAP Representation

Dr. Richard Brown appointed to join CODATA DRUM Task Group.

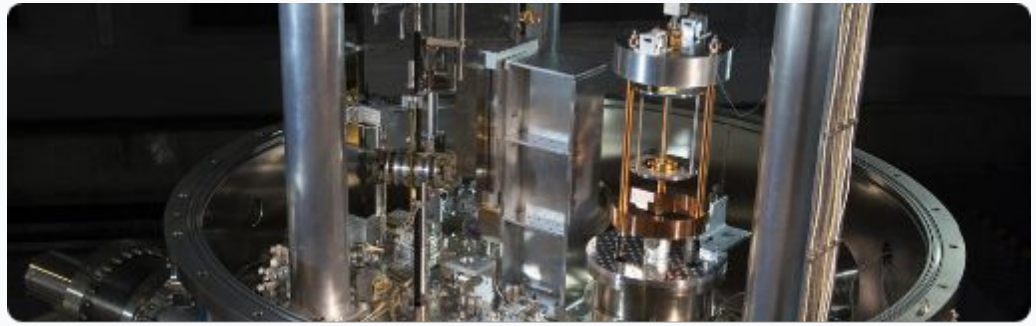
Data Interoperability

Enabling scientific unions to understand and implement machine-readable unit data.

Global Outreach

Raising awareness across physics and metrology research communities globally.

2026 IUPAP C2 Award Recipients



EARLY CAREER SCIENTIST PRIZE

Dr. Kumar Arumugam

NIST (USA)

Pioneering **miniaturized Kibble balance** technology enabling direct SI mass realization from fundamental constants beyond national metrology institutes.



SUNAMCO SENIOR SCIENTIST MEDAL

Dr. Jürgen Schurr

PTB (Germany)

Pioneering contributions to **AC quantum Hall impedance standards** and realizing the farad, establishing a universal quantum link for impedance units.

Revision of the SUNAMCO "Red Book"

TeX File Recovery

Original TeX source files recovered from Dr. Peter Mohr (NIST) for full text editing.

Revision Strategy

Establishing workflows for updating symbols, nomenclature, and fundamental constants.

IUPAC Synergy

Ongoing dialogue with the IUPAC Green Book committee to align physical and chemical metrology.

Revision of the JCGM Charter

WG formed during last JCGM plenary
will start activities in november 12

Convocation to the 27th meeting of the CCU

Internal discussion for representation

Image Sources



http://metrology.news/wp-content/uploads/2023/01/NIST-Improves-Its-Flagship-Device-for-Measuring-Mass.png

Source: metrology.news



https://physicsworld.com/wp-content/uploads/2025/01/image-Hall-effect.jpg

Source: physicsworld.com