POWER TRANSFORMER STANDARDS AND ELECTRICAL ENERGY MEASUREMENT AND CONTROL STANDARDS WERE PART OF THE JOINT COPANT/IEC WEBINAR ON IEC 14 & 13 TECHNICAL COMMITTEES

1. WEBINAR ON TECHNICAL COMMITTEE IEC/TC 14 - POWER TRANSFORMERS

On June 8, 2021, the fourth Webinar organized between COPANT and IEC, related to the IEC/TC 14 technical committee on “Power Transformers”, was held.

The objective of this Webinar was to learn from the Chairman of the technical committee an overview of the history, scope, structure and list of standards published and under development.

A total of 37 delegates from the following 16 countries participated: Antigua & Barbuda, Brazil, Chile, Costa Rica, Dominican Republic, Ecuador, El Salvador, Honduras, Guatemala, Honduras, Mexico, Panama, Peru, Switzerland, United States and Uruguay.

Christoph Ploetner, Chairman of TC 14, addressed the following, during the workshop:

- The history of electrotechnics between 1800 and 1900, and how electricity became the promoter of progress, in relation to generation, transmission, distribution, use and ease of handling in any quantity, as well as, the milestones of scientific exploration carried out between 1800 and 1850. Technical achievement of devices between 1850 and 1900, and the technical utilization of the same from 1891 onwards.
- A tribute was paid to the inventors of the transformer, both single phase (1885) and triple phase (1890).

The inventors of the transformer – Tribute

130+ years transformers

First single-phase transformer 1885
M. Deri / O. Blathy / K. Zipernowsky
(1860-1939) (1854-1938) (1853-1942)
GANZ, Budapest

First three-phase transformer 1890
Michael Dolivo-Dobrovolsky (1862-1919)
AEG, Berlin

Shell-type

Core-type
• The evolution of literature and publications related to transformers.
• The standards related to power transformers, from the beginning to the present, and the main standards developed by IEC.
• The most important electrotechnical associations.

![Important electrotechnical associations](image)

- The IEC TC 14 structure and internal liaisons.
- The IEC TC 14 standards, revisions and developments in progress, specifically the revision of IEC 60076-1.
- The strategies for the maintenance and development of IEC TC 14 standards, the challenges to be faced and the tasks to ensure the operation of power transformers according to the standards.

Finally, the Webinar culminated with answers to doubts and questions from the attendees.

**Note:** The session was recorded and is available at this [link](#).
2. **WEBINAR ON TECHNICAL COMMITTEE IEC/TC 13 - ELECTRICAL ENERGY, MEASUREMENT AND CONTROL**

This past July 5, 2021, took place the fifth Webinar organized between COPANT and IEC, related to the IEC/TC 13 technical committee on "Electrical Energy, Measurement and Control".

The objective of this Webinar was to learn from the Chairman of the technical committee and the Coordinator of WG 15 the overview of the history, scope, structure and list of standards published and under development.

It was attended by 44 delegates from the following 15 countries: Argentina, Brazil, Chile, Ecuador, El Salvador, Spain, United States, Guatemala, Honduras, Mexico, Nicaragua, Panama, Peru, Dominican Republic and Saint Lucia.

Peter Jensen, TC 13 Chairman, addressed the following:

- How the Webinar would be conducted, its content and the presentation of the speakers.
- The IEC/TC 13 scope of work, applicable exclusions, and its structure, including standing and temporary working groups.
- The current links and collaboration with other technical committees and associations, as well as new ones.

John Cowburn Working Group 15 Coordinator, presented:

- The scope of the TC 13 working groups, including:
  - Scope of Working Group 11 - Legal Metrology.
  - Scope of Working Group 14 - Communications.
  - Scope of Working Group 15 - Intelligent Measurement Functions and Processes.

Finally, Peter Jensen, Chairman of TC 13, discussed examples of the standards included in its work program, trends in smart metering and the value of participating in TC 13 activities.

The webinar culminated with answers to doubts and questions from the attendees.

*Note:* The session was recorded and is available in this [link](#).