

IEEE Waveform Generation Measurement and Analysis Technical Committee (TC10)
Approved Meeting Minutes
18 October 2022 / 11:00 AM –13:00 PM (UTC-4)

1. Call to Order
2. Introductions and Roll Call
 - a. Nick Paulter, TC10 chair, presided
 - b. Jerry Blair, TC10 Secretary, took minutes
3. Approval of the Agenda
 - a. Motion for agenda approval was provided by Gregory and seconded by Jerry. Agenda was approved unanimously.
 - b. The approved agenda is available on iMeetCentral (<https://ieee-sa.imeetcentral.com/login>).
4. Approval minutes from 19 April 2022 meeting
 - a. Motion for minutes approval was provided by Gregory and seconded by Charles. Minutes were approved unanimously.
 - b. The approved minutes are available on iMeetCentral (<https://ieee-sa.imeetcentral.com/login>).
5. TC10 administrative
 - a. Comments, concerns, issues for IEEE SA tools was solicited. No response.
 - b. Next meeting will be 17 January 2023 starting at 1100 (UTC-4).
6. Working Groups Updates
 - a. Revision of IEE Std 181, IEEE Standard for Transitions, Pulses, and Related Waveforms
 - i. Lead: Nick Paulter
 - ii. PAR expires 2025. We will wait until the 1241 is balloted and approved before starting on the 181.
 - b. Revision of IEEE Std 1241, IEEE Standard for Terminology and Test Methods for Analog-to-Digital Converters
 - i. Lead: Nick Paulter
 - ii. Status
 1. Ballot open 13 October 2022.
 2. Line-numbered draft was not provided. Nick has asked for guidance from IEEE-SA on how to make a line-numbered draft available to balloting committee members.
 3. Nick has requested a PAR extension to ensure that there is time to address any comments provided.
 - c. Revision of IEEE Std 1658, IEEE Standard for Terminology and Test Methods of Digital-to-Analog Converter Devices
 - i. Lead: Luca DeVito
 - ii. Status
 1. MEC complete.
 2. Working group members approved latest version to submit for balloting.
 3. Balloting committee established.

- d. Revision of IEEE Std 1696, IEEE Standard for Terminology and Test Methods for Circuit Probes
 - i. Lead: John Jendzurski
 - ii. John waiting for IEEE-SA to provide copy of standard that can be shared with working group members.

- 7. Discussion topics
 - a. TC10 technical presentations
 - i. John Calvin provided a technical presentation, entitled “Instrument noise compensation in higher order modulated signals.” The presentation was followed by questions and discussion.
 - ii. Allan Belcher volunteered to provide a presentation at the next TC10 quarterly meeting.

- 8. Adjourn
 - a. Motion to adjourn was made and seconded.
 - b. Meeting adjourned around 1230 (UTC-4).

- 9. Tasks
 - a. Outstanding tasks (not completed from previous lists)
 - i. WG chairs - review web pages (<https://sagroups.ieee.org/im-wma-tc10/>) for content
 - ii. Allan Belcher - send Nick information/presentation on quantum ADCs/DACs for distribution to TC10 members
 - b. New
 - i. Nick Paulter - upload draft minutes of 18 Oct 2022 meeting

Attendee list with affiliation:

Attendee name	Affiliation
Allan Belcher	Signal Conversion, Ltd, UK
Jerome Blair	Keystone International, Inc, retired, USA
Bill Boyer	Sandia Natl. Lab., retired, USA
John Calvin	Keysight, USA
Fritz Caspers	CERN, Switzerland
Charles Cerny	USAF Research Laboratory, USA
Razvan Ciocan	Draper, USA
Dominique Dallet	IMS Laboratory - Bordeaux INP, France
Francesco De Paulis	University of L'Aquila, Italy
Yuji Gendai	THine Electronics, Japan
John Jendzurski	National Institute of Standards and Technology, USA
Gregory Kyriazis	National Institute of Metrology, Quality and Technology (INMETRO), Brazil
Alessandro Mingotti	University of Bologna, Italy
Gearoid Oheidhin	GE Renewables, UK
Nicholas Paulter	National Institute of Standards and Technology, USA
Balázs Renczes	Budapest University, Hungary
Steve Tilden	Consultant, USA
Han Wang Yoo	Automation and Control Institute, Austria