

Agenda of the 26th Meeting of the CCTF Working Group on TWSTFT

7-8 June 2018 at the 2018
at the Central Office of Measures (GUM)
Elektoralna 2 Str., Warsaw, Poland

Venue Meeting: room 105, first floor

Chairman: Victor ZHANG (NIST)
Executive Secretary: Zhiheng JIANG (BIPM)
Reporter: Erik DIERIKX (VSL) (TBD)
Local Organizer: Albin CZUBLA, Maciej GRUSZCZYŃSKI

Session I 8h00-11h30 and 13h00-17h30, 7 June (Thursday)

Opening ceremony: 8h00-8h30

Welcome speech Dr. W. Lewandowski, Director of GUM

- Registration
- Designation of reporter
- Approval of the agenda

Opening presentation: Dr. Patrizia Tavella, Director of Time Department BIPM on behalf of CCTF
News from the BIPM, the CIPM, and the CGPM (15 minutes)

1.1 Laboratory reports*(about 10 minutes) (8h30-10h00 and continue after coffee break)

- 1) AOS (Jerzy NAWROCKI)
- 2) BIRMM (Shengkang ZHANG)
- 3) CH (Christian SCHLUNEGGER)
- 4) GUM (Albin CZUBLA/Michał MARSZALEC)
- 5) IT (Ilaria SESIA)
- 6) KRISS (Sung-hoon YANG)
- 7) NICT (Miho FUJIEDA)
- 8) NIM (Zhiqiang YANG)
- 9) NIST (Victor ZHANG)
- 10) NPL (TBD)
- 11) NTSC (Wenjun WU/Hong ZHANG)
- 12) OP (Joseph ACHKAR)
- 13) PTB (Dirk PIESTER)
- 14) ROA (Hector ESTEBAN)
- 15) SP (Carsten RIECK)
- 16) SU (Andrey NAUMOV)
- 17) TL (Calvin S.Y. LIN)

- 18) USNO (Russell BUMGARNER/Jay HANSSSEN)
- 19) VSL (Erik Dierikx)
- 20) IPQ (Reported by Hector ESTEBAN)

* Please include change(s) in TWSTFT setup and equipment, as well as new calibrations in the report. For those colleagues who would like to make a laboratory report but are not able to attend the meeting, please prepare the report and ask a colleague to present the report during the meeting. All the reports, presented or not, will be published in the BIPM TWSTFT WG web site as documentary.

Coffee break 10h00-10h30

1.2 Network status (about 5-10 minutes) (10h30-11h50)

- 1) Status of the Europe-Europe and Europe-USA links (Victor ZHANG/Dirk PIESTER)
- 2) Status of the Europe-Asia link (Andrey NAUMOV/Dirk PIESTER)
- 3) Status of the Asia-Asia links (Miho FUJIEDA/Calvin S.Y. LIN)

1.3 Updating the TWSTFT calibration guidelines (about 10-15 minutes) (12h00-13h00)

- 1) Definition of the RefDelay (Joseph ACHKAR)
- 2) Discussions

Lunch 13h00-14h00

1.4 Development (about 10-15 minutes) (14h00-15h00)

- 1) On the redundancy in the UTC time transfer network (Zhiheng JIANG, Victor ZHANG, Tom PARKE R and Gérard PETIT)
- 2) News and developments on TWSTFT equipment and calibration (Wolfgang SCHAEFER_ TBD)
- 3) Development of digital TWSTFT modems (Miho FUJIEDA, Shengkang ZHANG_ TBD)
- 4) 1 PPS timing impact in TWCP (Miho FUJIEDA)
- 5) Others

Coffee break 15h00-15h30

1.5 TWSTFT SDR installation and operation (about 5-10 minutes) (15h30-17h50)

- 1) Ongoing SDR development to further reduce the diurnal impact and improve time link uncertainty (Yi-Jiun HUANG and Joseph ACHKAR)
- 2) Reports* and discussions of SDR TWSTFT operation by (AOS, IT, KRISS, NICT, NIM, NIST, NTSC, OP, PTB and VNIIFTRI etc.)

* Those who intent to give a report, please contact Victor ZHANG/Zhiheng JIANG before 15 May.

Guided walking tour around the Old Town: 18h00-19h45

Dinner in the Old Town starting about 20h00

Session II 8h30-11h30 and 13h00-14h30, 8 June (Friday):

2.1 The pilot study on the TWSTFT SDR for UTC computation (8h30-9h30)

- 1) SDR for UTC – Status and future work (Zhiheng JIANG and Victor ZHANG)
- 2) Discussion:
 - List of the SDR labs ready to submit the data regularly to BIPM from Oct. 2018. If not, from when?
 - Schedule of implementing SDR in backup and official UTC computations;
 - Needs to update the Calibration Guidelines 2016 due to the use of SDR?
 - Others.

Coffee break 9h30-10h00

2.2 Other issues (10h00-11h00)

- 1) TWOTFT in Europe (Jerzy NAWROCKI)
- 2) TWOTFT in Japan (Miho FUJIEDA)
- 3) Report meteorological data to BIPM (Victor ZHANG)
- 4) On the TWSTFT 27th Annual Working Group Meeting 2019 (Miho FUJIEDA)

2.3 Discussions (11h00-11h20)

Virtual visit at NIT (location of NIT/GUM TW station) – 15 min
Ceremony for the retirement of Zhiheng JIANG

Lunch 12h00-13h00

2.4 Lab tour (13h00–14h30) – two groups

- 1) Time and frequency laboratory
- 2) Length laboratory
- 3) Electricity laboratory