

TWSTFT Activities 2012 in NMIJ, AIST

National Metrology Institute of Japan (NMIJ) Tomonari SUZUYAMA



19th Meeting of the CCTF WG on TWSTFT



NMIJ (Tsukuba, Japan) 12-13 September, 2011

13 Institutes27 participants

Thank you very much!

Members of our section (until March 2012)

Time and Frequency Division

F. HONG, Head of Time and Frequency Division

K. SETA, Deputy Director of NMIJ

S. OHSHIMA, Deputy Director of NMIJ



Frequency Measurement Systems Section

M. AMEMIYA Chief, Frequency Measurement Systems Section



M. IMAE Senior Research Scientist



K. WATABE Senior Research Scientist Research Scientist



T. SUZUYAMA



Y. FUJII **Technical Staff**



A. OKUDA **Technical Staff**



D. MIYAMOTO **Technical Staff**



T. SAKUARAI **Technical Staff**



S. Shashika Student



A. NISHIDA Student

Time Standards Section

Wavelength Standards Section

Members of our section (from April 2012)

Time and Frequency Division

S. OHSHIMA, Deputy Director of NMIJ

F. HONG, Head of Time and Frequency Division



Frequency Measurement Systems Section

M. AMEMIYA
Chief, Frequency Measurement Systems Section



Technical Staff



K. WATABE Senior Research Scientist



T. SUZUYAMA Research Scientist



M. WADA (Fresh Recruit!)
Research Scientist

Time Standards Section

Wavelength Standards Section



Time keeping at NMIJ

3 Cs clocks are reported to BIPM.

 Three Hydrogen Masers, RH401A and SD1T01A are made by Anritsu, another one is CH1-75A made by Kvartz.
 (Another RH401A was halt. VCH-1003M made by VREMYA will be installed until February 2013.)

The source oscillator for the AOG is one of the Hydrogen

Masers.



UTC(NMIJ) Measurement Systems



Earth station configuration





ASIA link station (1.8 m, 10 W)



This frontend part is installed the temperature controlled system.



Europe link station (2.4 m, 10 W)



The direction was changed toward AM-2, but new RX BPF, Radio license are needed.



Up & Down Conv. (AM-2)



TX: 14 GHz, RX: 11GHz
Assembled by Freqtime Corporation Ltd.
(Imae-san's venture company)

NMIJ will join AM-2 link.



Thank you for your attention.