

# 13<sup>th</sup> Superconducting SFQ VLSI Workshop (SSV 2020)

January 16 – 17, 2020, Yokohama, Japan

**Scope & Aims:** The workshop aims at providing an opportunity to discuss key aspects of superconductor VLSI technologies. Latest results related to device fabrication, circuit design, function testing, and system integration will be exchanged.

**Schedule:** January 16 - 17, 2020

**Venue:** Yokohama Port Opening Memorial Hall, Yokohama

Access: One-minute walk from “Nihon-Odori” station of Minatomirai line

<https://www.city.yokohama.lg.jp/naka/madoguchi-shisetsu/riyoshisetsu/kaikokinenkaikan/acces.html>

The SSV 2020 will be held jointly with the Technical Committee on Superconductive Electronics (SCE) of IEICE. Proceeding of SSV 2020 will be published as the technical reports of IEICE.

**Sponsorship:** This workshop is sponsored by the following organizations and national projects in Japan.

- Institute of Advanced Sciences, Yokohama National University
- JSPS KAKENHI Grant Number JP18H05211, “Research on Ultra-Low-Power Sub-terahertz Superconductor Quantum Digital Systems Based on Pulse-Driven Circuit Technology”
- JSPS KAKENHI Grant Number JP19H05615, “Large-scale superconducting spintronics quantum computing circuits toward the realization of quantum supremacy”
- JSPS KAKENHI Grant Number JP19H05614, “Creation of extremely energy-efficient logic circuits beyond the thermodynamic limit based on reversible quantum flux circuits”

**Endorsement:** Supported by City of Yokohama

## Program

### January 16 (Thursday):

13:30 – 17:15

- Invited talks (Joint session with 2020 International Symposium on Superconductor Electronics)

Dr. Jeffrey Shainline (NIST)

Mr. Robert Freeman (Synopsys, Inc.)

Prof. Akira Fujimaki (Nagoya University)

Prof. Zhen Wang (Shanghai Institute of Microsystem and Information Technology)

Dr. Mark Volkmann (D-Wave Systems Inc.)

Prof. Jaw-Shen Tsai (Tokyo University of Science, RIKEN)

Dr. Shiro Saito (NTT)

18:00 – 20:00

- Banquet: Workpia Yokohama <http://workpia.or.jp/access/>  
(Banquet Fee: Participant 6000 yen, Student 3000 yen)

### January 17 (Friday) :

9:00 – 12:00

- Opening and Invited talks
- Prof. Shane Cybart (University of California, Riverside)  
Dr. Hiroataka Terai (NICT)  
Prof. Masamitsu Tanaka (Nagoya University)  
Prof. Kevin Osborn (Maryland University)  
Prof. Naoki Takeuchi (Yokohama National University)

13:15 – 15:30

- Short presentation and poster session

15:30 – 17:10

- Oral session and closing

**Website for Registration:** <https://www.super.nuee.nagoya-u.ac.jp/SSV2020/index.html>

**Registration Deadline:** Submission of abstract: November 12, 2019,

Submission of proceeding: December 18, 2019

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