

PREFACE

The Twentieth International Conference on Radio-Frequency Superconductivity, SRF 2021, was a virtual conference due to the COVID-19 Pandemic. The conference began on Sunday 27 June 2021 and ended on Friday 2 July 2021, with a 3-day virtual tutorial session prior to it. SRF 2021 was hosted by the Facility for Rare Isotope Beams at Michigan State University (FRIB/MSU).

The SRF conference is held every two years and reflects the maturity of international collaboration in the field of RF superconductivity. The 2021 conference provided a forum to share and discuss exciting developments related to SRF facilities, fundamental R&D, cavity R&D, and applications. Though the virtual format was new, the scientific program allowed for a fruitful and lively sharing of information and ideas amongst the SRF community.

In order to better accommodate participants in different time zones, the scope of the virtual conference was smaller than that of previous in-person conferences. In spite of the reduced scope, a virtual environment was developed for poster sessions and a full proceedings were published—measures taken to provide more opportunities for researchers, especially students and post-doctoral associates, to present their work.

The conference had 416 registrants from 19 countries; 10 student grants were awarded to defray registration costs; 47 students presented their work in a special student poster session.

The conference was organized into 16 scientific sessions, including 4 virtual poster sessions. On the final day of the conference, virtual tours of several accelerator laboratories were conducted: FRIB, KEK, Saclay, Brookhaven, Fermilab, and SLAC.

Prizes were awarded to three student poster presenters:

Prize	Recipient	Poster
First	Daniel A. Turner, Cockcroft Institute, Lancaster University	Magnetic Field Penetration of Niobium Thin Films Produced by the ARIES Collaboration
Second	Manula Pathirana, CAS, Old Dominion University	Effect of Mean free Path on Nonlinear Losses of Trapped Vortices Driven By A RF Field
Second	Ryan D. Porter, CLASSE, Cornell University	Dynamic Temperature Mapping of Nb ₃ Sn Cavities

The success of SRF2021 was due to the excellent collaboration between the international program committee, scientific program advisory board, and local organizing committee. We appreciate very much the work and enthusiasm of the participants and the continuous support of societies, institutes and laboratories worldwide, especially MSU and FRIB.



Kenji Saito, MSU/FRIB
SRF 2021 Conference Chair