



Contribution ID: 1194

Type: **Plenary**

## **C3PL-01: The Facility for Rare Isotope Beams and the MSU Cryogenic Initiative**

*Wednesday, July 24, 2019 8:15 AM (45 minutes)*

The Facility for Rare Isotope Beams\* is being designed and established by Michigan State University as a DOE Office of Science Scientific User Facility supporting the mission of the Office of Nuclear Physics. More than 90% complete, FRIB will provide world-leading research opportunities with rare isotopes in nuclear physics, nuclear chemistry, and the application of rare isotopes for society. Centered around a superconducting radio-frequency linear accelerator, operating at 2 K and capable of delivering 400 kW of beam power, and a fragment separator consisting of superconducting magnets operating at 4 K, FRIB is enabled by a large helium liquefaction plant, which will be discussed elsewhere at this meeting. To develop a work force in cryogenic engineering, FRIB and the MSU College of Engineering and College of Natural Science have started the MSU Cryogenic Initiative ([www.frib.msu.edu/science/ase/cryogenic/](http://www.frib.msu.edu/science/ase/cryogenic/)).

\*The design and establishment of FRIB is supported by the U.S. Department of Energy Office of Science under cooperative agreement DE-SC0000661, the State of Michigan, and Michigan State University.

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**Session Classification:** Plenary: Thomas Glasmacher | FRIB/Michigan State University

**Track Classification:** CEC-16 - Miscellaneous