

# NBI2017

## 10<sup>TH</sup> INTERNATIONAL WORKSHOP ON NEUTRINO BEAMS & INSTRUMENTATION

Facility Operation Updats & Future Facilities

Beam Interlock System

Primary Beamline & Beam Monitors

Neutrino Flux Prediction

& Hadron Production Measurements

Horns

Decay Volume, Beam Dump & Facility Design

Remote Maintenance

Keynote Lecture: NuMI 700kW Operation

by Jim Hylen (FNAL)

Remote Maintenance

Radiation Protection & Waste Treatments

- This is summary for entire workshop & meeting, although still RaDIATE core sessions continues this afternoon & full day tomorrow.
- LOC sincerely thank you for your attendance and such many key contributions:
  - ◆ 56 participants (incl. 29 foreign institutions) + 6 remote participants
  - ◆ 75 contributions (incl. 6 Videoconferencing, )
    - ▶ It was very hard to fit everything in 5 days program.
    - ▶ Not enough discussion could occur, as we used to past NBI meetings...

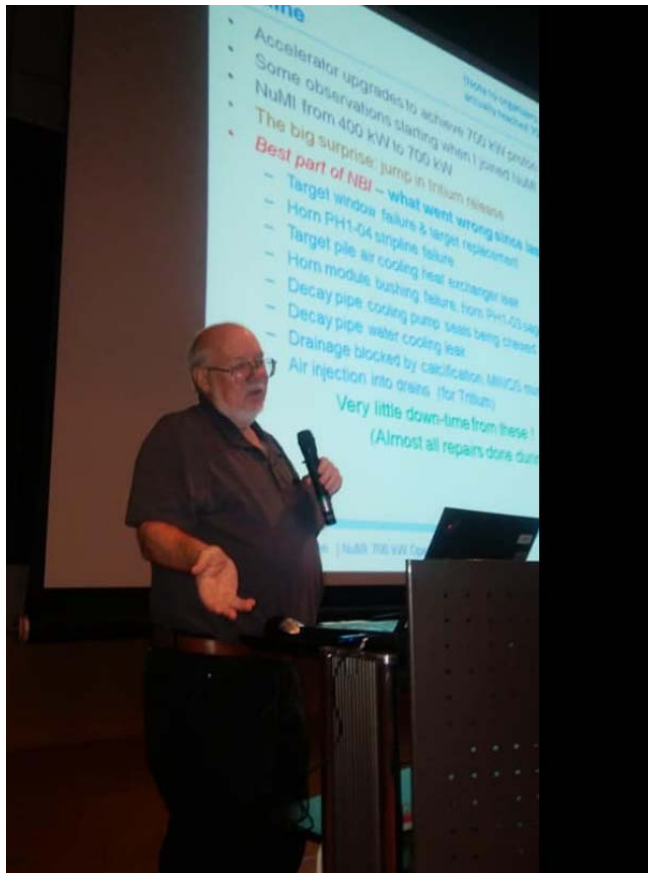




# NBI2017+RaDIATE Unique Opportunities



- **Keynote lecture: NuMI 700kW operation**
  - ◆ Celebration on Fermilab's awesome achievement on 700kW operation at NuMI
  - ◆ Scared that such more hurdles you meet from 400→700kW...





# Facility Tour



- Hope our facility can be a good working reference to your future facilities, as your facilities played the same role to ours.







**10<sup>th</sup> International WS on Neutrino Beams & Instrumentation + 4<sup>th</sup> RaDIATE Collab. Meeting, Sept18-22, Tokai, Japan**









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# Next Neutrino Beam Instrumentation WS



- Under discussion by SAC
  - ◆ So far NBI is rotated between KEK/J-PARC, CERN, and Fermilab every two years
  - ◆ This was unique opportunity for physicists and engineers working on high-intensity neutrino beam facilities, sharing mutual knowledge, operational experience, and upgrade plans for MW facilities.
- NBI2017 is the first attempt to organize with RaDIATE collaboration & call attendance from other communities
  - ◆ Many common interests and problems among high intensity accelerator beam facilities other than neutrinos → I believe it was quite successful !
- We hope to reach reasonable consensus soon.
  - ◆ Need to differentiate to other ws like HPTW/IWSMT



**Thank You**

**&**

**See you at**

**NBI2019**