

Opening Remarks

on Behalf of International Program Committee
for SRF Workshops

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Our Goals

- The program committee tries to provide an exciting forum for reporting major progress on
 - Applications to accelerators
 - On-going and Up-coming
 - Technology of SRF and associated components
 - Science of SRF
- Keep a balance between low beta and high beta interests
- Bring in new speakers
- Enhance student participation

Much Progress Since SRF-2005

- SNS commissioning reached design energy
 - 1 GeV protons
- TTF-II commissioning reached design energy
 - 1 GeV electrons
- Successful commissioning of SRF systems in storage ring light sources around the world
 - Taiwan Light Source, Canadian Light Source, SOLEIL, Shanghai Light Source, Beijing Tau-Charm Factory and Light Source

The Future is Ready

- New project : 20 GeV XFEL approval : the largest SRF project to date.
 - LEP-II was 3.5 GeV installed
- New light sources : FELs and ERLs
- New SRF infrastructure under installation around the world for ILC and other projects:
 - KEK, Fermilab/Argonne, SNS upgrade

Challenges for SRF Community

- Improve basic understanding for performance limitations
 - Q-slopes, especially high field Q-slope
 - Sources of quench and field emission
- Improve the yield for highest gradient performance
 - How can we get to 90% or better yield at 35 MV/m for ILC?
 - Must continue the fight against common enemies of the past :
 - field emission and quench
- Improve the Q for CW applications
- Increase industry presence
 - 1000 cavities, 100 cryomodules for XFEL
 - 16,000 cavities, 2000 cryomodules for ILC
- Niobium is fast reaching its theoretical limit (whatever that may be?)
 - Where is the new road?

Final Remarks

- Good news for publications:
 - SRF Workshop Proceedings will soon be available at JACOW.
- A special thanks to our hosts for arranging the 13th workshop in China
- And to the Local Organizing Committee for taking care of complex arrangements
- We look forward to an exciting program
- A new chairman