



Next steps

- Preparation for Chicago
 - **Proposal by H. Hayano**

WG Charge – In 21 hours,

- Review current status of global ILC R&D and future plans, for both the baseline configuration as well as the supported alternative designs;
- Review and plan activities in and around Test Facilities (both existing and proposed);
- Identify and prioritize critical R&D milestones for TDP-1 and beyond.
- Promote and improve collaboration between groups working on ILC related R&D:

TD Milestones

- April 2009 (KEK): Critical in-depth technical review by the Accelerator Advisory Panel (AAP)
- January 2010: Re-baseline of the ILC design, in preparation for TD Phase 2
- July 2010 (Paris): Publication of the TD Phase 1 interim report at ICHEP

ML Topics – 9 hrs

- Progress on achieving gradient (S0)
 - Reports from three regions
 - TTC summary on topics on covered at ILC08
 - Status of alternatives (60 mm designs, large grain)
- Status of Facilities and Horz/CM testing (S1/S2)
 - Reports from three regions
 - S1 Global progress
- Toward Plug Compatibility
 - He vessel (material, pressure vessel constraints, ..)
 - Tuners
 - Couplers (OD, location, Q control, cryo losses)
- Cryomodule Design
 - Refinement of design in the three regions
 - Cryogenics optimization (heat shield, pipe sizes)

ML Session Overview

	Primary Session	Secondary Session	Other Groups
Monday	Cavities and Cryomodule		HLRF meet with CFS
Tuesday	HLRF/LLRF	Cryomodule Design Details	
Wednesday	MLI, Beam Dynamics and RTML	LLRF Studies at Flash	

ML Topics – SCRF

Monday(Nov.17) morning

- Progress on achieving gradient (S0)
 - TTC summary on High gradient R&D (...???.) 30min
 - New Reports from three regions (not presented at TTC) (.....)
 - New topics (not presented at TTC) (.....)
 - Status of alternatives (60 mm designs, large grain) (.....)
 - Plans for TDP1 period (Lutz by Webex ?) 20min

(presentation candidates from KEK)

Pits study & surface study progress (Takayuki Saeki) 20min

Mechanical grinding progress (Ken Watanabe or Hitoshi Hayano) 15min

Surface observation study by Kyoto-camera (Ken Watanabe) 15min

AES001 tests and cavity study plan at STF (Hitoshi Hayano or Ken Watanabe) 20min

ML Topics – SCRF

Tuesday(Nov.18) morning

- Toward Plug Compatibility
 - cavity package plan from each lab (.....)
 - Specification profile document (Hitoshi Hayano) 20min
 - Interface location discussion (.....) 30min
 - Summary document for plug compatibility (Hitoshi Hayano or Akira Yamamoto) 20min

(presentation candidates from KEK)

Cavity package plan for STF phase2 (Shuichi Noguchi) 20min



Organizational Issues for ILC08

– Need

- Speaker for TTC summary
- Speaker for Alternatives
 - Summary desirable
- Cavity Package US

– Option

- New topics since TTC, if any
 - Several proposals by KEK already



Preparation to answer the charge

- Cavity performance
 - **Need an overview table from all involved labs**
 - Correlation between thermometry data and optical inspection
 - **Take TTC findings, support sample/single-cell tests where appropriate**
 - Which role play topological surface defects as observed in cavities?
 - Chemical analysis of optically defective welds
 - Re-produce optically defective welds
 - **Develop measures to avoid defects of this type**
 - Improved weld quality
 - Dedicated smoothing of the weld (tumbling or CBP a la KEK)
 - Local repair methods
- Other?