



Preparations for the SiD Workshop at Fermilab, April 9-11

**SiD Advisory Meeting
March 12, 2007**

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Workshop Goals

- Workshop webpage can be found at <http://ilc.fnal.gov/detector/rd/sid/sid07.htm>
 - Registration is unfortunately just by email
 - Apologies for arcane registration procedures

- The primary goals of the workshop are:
 - To review the status of SiD software tools
 - Define the SiD R&D plans
 - Discuss the necessary steps to work towards the SiD Conceptual Design Report
 - All speakers should indicate possibilities for new people to take on certain responsibilities within SiD

- In addition, there are two major detector reviews coming up in the near future:
 - Review of Calorimetry at LCWS07 (DESY)
 - Review of Vertex Detector Technologies at ALCPG07 (Fermilab)



Workshop Schedule: Monday

- 1:30pm – 15:30pm: parallel sessions
 - Vertexing and Tracking
 - Calorimetry
 - FCAL
 - No parallel for software since it spans all subdetectors

- 16:00 – 17:30
 - Not allocated yet
 - Maybe start with overview of goals, physics talk?

- 18:00: beer at the user's center



Workshop Schedule: Tuesday Morning

- Plenary 0:
 - Intro from Pier/Young-Kee/Mont on ILC Detector R&D
 - Intro from John/Harry
 - What are the SiD priorities for the next 6-12 months
 - What are the main goals for SiD in terms of preparation for a CDR

- Plenary I: Reviews
 - Tracking Review post-mortem (30 mins)
 - What worked, what didn't work ?
 - Action plan as outcome of the review ?
 - EM Calorimeter R&D plans and goals (30 mins)
 - HAD Calorimeter R&D plans and goals (30 mins)
 - Preparations for LCWS07 calorimetry Damerell review
 - What do we present and how ?
 - How do we treat the collaboration with CALICE?
 - What is the timescale for SiD critical decisions on technology?
 - How do we decide?

- Plenary II
 - Status of PFA (30 mins)
 - Non-PFA Calorimetry: Ron Cassell (30 mins)
 - Dumping PFA: Adam Para (30 mins)



Workshop Schedule: Tuesday Afternoon

- Plenary III: Benchmarking Overview
 - Status of benchmarking
 - What does the benchmarking group want to see from each subsystem in terms of software development
 - What tools are missing?
 - Prioritized list of tool development
 - What physics benchmarking topics are SiD's highest priority that allows optimization of critical detector parameters at the same time
 - Physics requirements on L,E,P measurements

- Plenary IV: MDI, FCAL and interplay with other subdetectors
 - Status of FCAL, ECAL, Beamcal in SiD
 - What are the physics requirements that drive the specifications for these detectors?
 - Status and R&D plans for these systems

- Dinner at Chez Leon; fixed price of about \$35 including wine and gratuity



Workshop Schedule: Wednesday Morning

- Plenary I: Software Overview
 - Status of tracking software and plans for next 6-12 months
 - Status of vertexing software and plans for next 6-12 months
 - Status of calorimeter software and plans for next 6-12 months
 - Status of FCAL, muon software

- Plenary II
 - Tracking status and R&D plans electrical
 - Tracking status R&D plans mechanical
 - Vertex status and R&D plans
 - Muon status and R&D plans



Workshop Schedule: Wednesday Afternoon

- Plenary III: R&D
 - Test beam plans at Fermilab and SLAC
 - Are resources adequate? What should SiD ask for in terms of resources for detector R&D?
 - Overall SiD R&D plans (Andy)
 - Prospects for Detector R&D Funding

- Plenary IV: The Road Forward
 - John/Harry

- Close by 15:30 for Fermilab Colloquium

- ILC-LHC Workshop starts Thursday, April 12-14