

# **SiD Workshop at SLAC**

## **Report of Contributions**

Contribution ID: 0

Type: **not specified**

## Welcoming Remarks

*Monday, 28 January 2008 09:00 (15 minutes)*

**Presenter:** Prof. KAHN, Steven (SLAC)

**Session Classification:** Workshop Introduction

Contribution ID: 1

Type: **not specified**

## State of the ILC

*Monday, 28 January 2008 09:15 (25 minutes)*

**Presenter:** Dr BARISH, Barry (GDE)

**Session Classification:** Workshop Introduction

Contribution ID: 2

Type: **not specified**

## The ILC Detector Program

*Monday, 28 January 2008 09:40 (25 minutes)*

**Presenter:** BRAU, Jim (U. Oregon)

**Session Classification:** Workshop Introduction

Contribution ID: 4

Type: **not specified**

## **Global Parameters - Performance studies**

Contribution ID: 5

Type: **not specified**

## **Global Parameters - Cost studies**

**Presenter:** BREIDENBACH, Martin (SLAC)

Contribution ID: 6

Type: **not specified**

## **Discussion: How do we converge on global parameters for the LOI?**

Contribution ID: 7

Type: **not specified**

## Studies of PFA Fundamentals

*Monday, 28 January 2008 13:30 (25 minutes)*

**Presenter:** CASSELL, Ron (SLAC)

**Session Classification:** Particle Flow Algorithms



Contribution ID: 8

Type: **not specified**

## **PFA Studies in SiD**

*Monday, 28 January 2008 13:55 (25 minutes)*

**Presenter:** Dr CHARLES, Matthew (The University of Iowa)

**Session Classification:** Particle Flow Algorithms

Contribution ID: 9

Type: **not specified**

## SiD Global Parameter Optimization using Pandora PFA

*Monday, 28 January 2008 14:20 (25 minutes)*

**Presenter:** Mr STANITZKI, Marcel (Rutherford Appleton Laboratory)

**Session Classification:** Particle Flow Algorithms

Contribution ID: **10**

Type: **not specified**

## **Cost vs Performance**

*Monday, 28 January 2008 14:45 (25 minutes)*

**Primary author:** BREIDENBACH, Martin (SLAC)

**Presenter:** BREIDENBACH, Martin (SLAC)

**Session Classification:** Particle Flow Algorithms

Contribution ID: **11**

Type: **not specified**

## **KPix Readout Chip**

Contribution ID: 12

Type: **not specified**

## **ECal R&D Status**

*Monday, 28 January 2008 15:40 (25 minutes)*

**Presenter:** Prof. FREY, Raymond (University of Oregon)

**Session Classification:** Calorimeter

Contribution ID: 13

Type: **not specified**

## HCal R&D Status

*Monday, 28 January 2008 16:05 (25 minutes)*

**Presenter:** Prof. WHITE, Andy (University of Texas at Arlington)

**Session Classification:** Calorimeter

Contribution ID: 14

Type: **not specified**

## **Pros / Cons of Scintillator and Gaseous HCAL Options**

*Monday, 28 January 2008 16:30 (25 minutes)*

**Presenter:** ZUTSHI, Vishnu Vikhyat (Northern Illinois University)

**Session Classification:** Calorimeter

Contribution ID: 15

Type: **not specified**

## **Crystal Calorimetry with Dual Readout**

*Monday, 28 January 2008 16:55 (25 minutes)*

**Presenter:** Dr PARA, Adam (Fermilab)

**Session Classification:** Calorimeter



Contribution ID: **16**

Type: **not specified**

## **Vertex Detector Mechanical Design**

Contribution ID: 17

Type: **not specified**

## Vertex Detector System Issues

**Presenter:** Dr LIPTON, Ronald (Fermilab)

Contribution ID: **18**

Type: **not specified**

## **Tracking Simulation Issues for the LOI**

Contribution ID: **19**

Type: **not specified**

## Tracker Detector Status

**Presenter:** NELSON, Timothy (SLAC)

Contribution ID: 20

Type: **not specified**

## Benchmarking Status

*Tuesday, 29 January 2008 15:45 (25 minutes)*

**Presenter:** Dr BARKLOW, Timothy (SLAC)

**Session Classification:** Benchmarking, Simulations, and Tracking

Contribution ID: 21

Type: **not specified**

## Simulation Status

*Tuesday, 29 January 2008 16:10 (25 minutes)*

**Presenter:** GRAF, Norman (SLAC)

**Session Classification:** Benchmarking, Simulations, and Tracking

Contribution ID: 22

Type: **not specified**

## Tracking Simulation Issues

*Tuesday, 29 January 2008 16:35 (25 minutes)*

**Presenter:** Dr KUTSCHKE, Robert (Fermilab)

**Session Classification:** Benchmarking, Simulations, and Tracking

Contribution ID: 23

Type: **not specified**

## Tracker R&D Status

*Tuesday, 29 January 2008 17:00 (25 minutes)*

**Presenter:** NELSON, Timothy (SLAC)

**Session Classification:** Benchmarking, Simulations, and Tracking



Contribution ID: 24

Type: **not specified**

## Forward Detector R&D Status and Plans

*Wednesday, 30 January 2008 08:55 (25 minutes)*

**Presenter:** MORSE, Bill (BNL)

**Session Classification:** Electronics, Forward, Muon, and Machine

Contribution ID: 25

Type: **not specified**

## **Muon Detector R&D Status and Plans**

*Wednesday, 30 January 2008 09:20 (25 minutes)*

**Presenter:** FISK, H. Eugene (Fermilab)

**Session Classification:** Electronics, Forward, Muon, and Machine

Contribution ID: 26

Type: **not specified**

## Forward Region Engineering

*Tuesday, 29 January 2008 09:40 (25 minutes)*

**Presenter:** ORIUNNO, Marco (SLAC)

**Session Classification:** Engineering

Contribution ID: 27

Type: **not specified**

# Electrical Engineering Report

Contribution ID: 28

Type: **not specified**

## Panel Discussion on Subsystem Plans

*Wednesday, 30 January 2008 10:40 (1 hour)*

**Presenters:** Dr NOMEROTSKI, Andrei (University of Oxford); SU, Dong (Stanford Linear Accelerator Center); DEMARTEAU, Marcel (Fermi National Accelerator Laboratory (FNAL)); Prof. FREY, Raymond (University of Oregon); ZUTSHI, Vishnu Vikhyat (Northern Illinois University)

**Session Classification:** Future Plans for SiD

Contribution ID: 29

Type: **not specified**

## Beampipe Design

Contribution ID: **30**

Type: **not specified**

**TBA**

Contribution ID: **31**

Type: **not specified**

## **What Next?**

*Wednesday, 30 January 2008 11:40 (45 minutes)*

**Session Classification:** Future Plans for SiD



Contribution ID: 32

Type: **not specified**

## Closing Remarks

*Wednesday, 30 January 2008 12:25 (30 minutes)*

**Presenter:** Prof. WEERTS, Harry (Argonne National Laboratory)

**Session Classification:** Future Plans for SiD

Contribution ID: 33

Type: **not specified**

## Workshop Goals

*Monday, 28 January 2008 10:05 (25 minutes)*

**Presenter:** JAROS, John (SLAC)

**Session Classification:** Workshop Introduction

Contribution ID: 34

Type: **not specified**

## View from DOE

*Monday, 28 January 2008 11:00 (25 minutes)*

**Presenter:** Prof. BLAZEY, Gerald (NIU)

**Session Classification:** State of SiD and ILC Support

Contribution ID: 35

Type: **not specified**

## Panel Discussion on State of SiD Support

*Monday, 28 January 2008 11:25 (1h 5m)*

**Presenters:** Prof. WEERTS, Harry (Argonne National Laboratory); Prof. AIHARA, Hiro (Tokyo Univ.); BRAU, Jim (U. Oregon); JAROS, John (SLAC); DEMARTEAU, Marcel (Fermi National Accelerator Laboratory (FNAL)); Prof. BURROWS, Philip (Oxford University); Dr KARYOTAKIS, Yannis (Lab. d'Annecy-le-Vieux de Phys. des Particules (LAPP/IN2P3/CNRS Uni. de Savoie))

**Session Classification:** State of SiD and ILC Support

Contribution ID: 36

Type: **not specified**

## Mechanical Engineering Report

*Tuesday, 29 January 2008 08:30 (30 minutes)*

**Presenter:** KREMPETZ, Kurt (Fermilab)

**Session Classification:** Engineering

Contribution ID: 37

Type: **not specified**

## Vertex Detector Mechanics

*Tuesday, 29 January 2008 09:15 (25 minutes)*

**Presenter:** COOPER, William (Fermilab)

**Session Classification:** Engineering

Contribution ID: **38**

Type: **not specified**

## **KPix Readout Chip**

*Tuesday, 29 January 2008 10:05 (25 minutes)*

**Presenter:** STROM, David (Oregon)

**Session Classification:** Engineering

Contribution ID: 39

Type: **not specified**

# Electrical Engineering Report

*Wednesday, 30 January 2008 08:30 (25 minutes)*

**Presenter:** Dr HALLER, Gunther (SLAC)

**Session Classification:** Electronics, Forward, Muon, and Machine



Contribution ID: 40

Type: **not specified**

## **Vertex R&D Status and System Issues**

*Tuesday, 29 January 2008 17:25 (25 minutes)*

**Presenter:** Dr LIPTON, Ronald (Fermilab)

**Session Classification:** Benchmarking, Simulations, and Tracking

Contribution ID: 41

Type: **not specified**

## Tracking Parallel Session

Contribution ID: 42

Type: **not specified**

## Room B

Contribution ID: 43

Type: **not specified**

## Room C

Contribution ID: 44

Type: **not specified**

## Room D

Contribution ID: 45

Type: **not specified**

**TBA**

Contribution ID: 46

Type: **not specified**

**TBA**

Contribution ID: 47

Type: **not specified**

## **IP and Bunch Parameters for Various Linear Colliders**

*Wednesday, 30 January 2008 09:45 (25 minutes)*

**Presenter:** Dr SERGI, Andrei (SLAC)

**Session Classification:** Electronics, Forward, Muon, and Machine



Contribution ID: 48

Type: **not specified**

## **Solenoid and Conductor R&D**

*Tuesday, 29 January 2008 09:00 (15 minutes)*

**Presenter:** Mr CRADDOCK, Wesley (SLAC)

**Session Classification:** Engineering

Contribution ID: 49

Type: **not specified**

## **Improvements to Tracking Visualization in Wired**

*Tuesday, 29 January 2008 11:00 (15 minutes)*

**Presenter:** DEACONU, Cosmin (SLAC)

**Session Classification:** Tracking Parallel Session

Contribution ID: 50

Type: **not specified**

## Pigtail Design

*Tuesday, 29 January 2008 11:15 (15 minutes)*

**Presenter:** HOEFERKAMP, Martin (University of New Mexico)

**Session Classification:** Tracking Parallel Session

Contribution ID: 51

Type: **not specified**

## **Digitization Simulation for Generic Pixel Detectors**

*Tuesday, 29 January 2008 11:30 (15 minutes)*

**Presenter:** Dr SINEV, Nick (University of Oregon)

**Session Classification:** Tracking Parallel Session

Contribution ID: 52

Type: **not specified**

## **Latest Advances of the SILC Collaboration**

*Tuesday, 29 January 2008 11:45 (15 minutes)*

**Presenter:** Dr SAVOY-NAVARRO, Aurore (LPNHE-Paris/CNRS-IN2P3)

**Session Classification:** Tracking Parallel Session

Contribution ID: 53

Type: **not specified**

## Round table discussion

*Tuesday, 29 January 2008 12:10 (20 minutes)*

**Presenter:** DEMARTEAU, Marcel (Fermi National Accelerator Laboratory (FNAL))

**Session Classification:** Tracking Parallel Session

Contribution ID: 54

Type: **not specified**

## **DHCAL and MicroMegas at LAPP**

*Tuesday, 29 January 2008 11:00 (20 minutes)*

**Primary author:** ADLOFF, Catherine (LAPP, Annecy)

**Presenter:** ADLOFF, Catherine (LAPP, Annecy)

**Session Classification:** Calorimeter Parallel Session

Contribution ID: 55

Type: **not specified**

## **RPC based DHCAL slice test results**

*Tuesday, 29 January 2008 11:20 (20 minutes)*

**Presenter:** Dr REPOND, Jose (Argonne National Laboratory)

**Session Classification:** Calorimeter Parallel Session



Contribution ID: 56

Type: **not specified**

## **Global Detector Parameter Studies**

*Tuesday, 29 January 2008 13:30 (25 minutes)*

**Presenters:** Dr COWAN, Ray (M.I.T.); BRONK, lawrence (MIT)

**Session Classification:** Simulation / PFA Parallel Session

Contribution ID: 57

Type: **not specified**

## Tracking simulation code updates

*Tuesday, 29 January 2008 13:55 (25 minutes)*

**Presenter:** NELSON, Timothy (SLAC)

**Session Classification:** Simulation / PFA Parallel Session

Contribution ID: 58

Type: **not specified**

## ECAL MAPS

*Tuesday, 29 January 2008 11:40 (20 minutes)*

**Primary author:** Mr STANITZKI, Marcel (Rutherford Appleton Laboratory)

**Presenter:** Mr STANITZKI, Marcel (Rutherford Appleton Laboratory)

**Session Classification:** Calorimeter Parallel Session

Contribution ID: 59

Type: **not specified**

## HCAL Geometry and Assembly

*Tuesday, 29 January 2008 12:00 (20 minutes)*

**Presenter:** Mr GEFFROY, Nicolas (LAPP/IN2P3/CNRS/Université de Savoie)

**Session Classification:** Calorimeter Parallel Session