Welcome!
Linear Collider R&D Opportunities Workshop
May 31, 2002
Stanford Linear Accelerator Center

Organizing Committee
LC Working Group at SLAC
Jim Brau                            John Jaros*
Phil Burrows                      Young Kee Kim
Sridhara Dasu                   Usha Mallik
Norman Graf*                      Marcello Piccolo
Jeff Gronberg                     Bruce Schumm
JoAnne Hewett*                    Jim Siegrist
Tom Himel*                         Bob Wilson

* local committee
LC R&D Opportunities

This is the third in a series of workshops in the U.S. this Spring aimed at boosting the involvement of the HEP Community in the Linear Collider.

- R&D Opportunities     Fermilab     April 5
- LCCOM                  Cornell     April 19
- LCRD02                 SLAC       May 31
Addressing a Problem

We are in an uncomfortable situation…
Enthusiastic LC Support at Snowmass

LC is Top Priority in HEPAP’s LRP

…but the US HEP Community is imperfectly engaged in the project and R&D is proceeding slowly.

A Chicken/Egg Dilemma has resulted in insufficient funding for LC R&D
Chicken/Egg Symmetry Breaking

**PROBLEM:**
To fully engage in the LC, the HEP Community needs support for LC R&D,
but
To support LC R&D, the funding agencies need a fully engaged HEP Community.

**SOLUTION:**
Amidei/Gollin/Tigner Mechanism:
Spontaneous R&D Proposal Generation.
HEP Community identifies and proposes needed LC accelerator and detector R&D
Goals of this Meeting

- Help Jumpstart LC R&D Proposals

- Discuss How to Package, Submit, Evaluate and Fund Proposals to DOE. NSF has ~procedures in place; see http://www.lns.cornell.edu/public/LC/UCLC/

- Prepare for the Next Step:
Plan for Today

Plenary Session (this morning)

- Outlook from the LC Steering Committee
- Accelerator R&D Opportunities Overview
- Detector R&D Opportunities Overview

Parallel Sessions (after lunch)

- Accelerator
- Machine/Detector Interface and Beamline
- Detector (Vertexing, Tracking, Calorimetry)

Plenary Session (after break)

- Parallel Session Summaries
- Reports from Fermilab, Cornell, ALCPG
- Panel Discussion/Questions
Parallel Sessions

- **Room assignments:** (check your map)
  - Accelerator: Redwood Room
  - Mach/Det Interface: Redwood Room
  - Vertexing: Sierra Room
  - Tracking: Fuji Room
  - Calorimetry: B Hive

- **Program (ALCPG Working Group Leaders)**
  - Outstanding problems and needed R&D
  - Status of Present Efforts
  - Discussion of Possible Research Areas
Next Steps

• **Before Santa Cruz Retreat**
  Define an R&D Project

• **At Santa Cruz Retreat (6/30)**
  Present R&D Plans
  Define Proposals
  Organize Proposal Writing

• **Summer**
  Write Proposals

• **Fall**
  Proposal Fest
  Submit Proposals