

APR08-2007-030087

Abstract for an Invited Paper
for the APR08 Meeting of
the American Physical Society

The U.S. Role in the Global ILC Effort

MICHAEL HARRISON, Brookhaven National Laboratory

An e⁺e⁻ Linear Collider in a similar center-of-mass energy range to the LHC was affirmed by the world community in 1999 (HEPAP, ECFA, & ACFA) as the consensus next global HEP facility. With the ICFA decision in 2004 to adopt a superconducting approach to the RF technology of such a machine the Global Design Effort (GDE) was launched to produce a conceptual reference design and associated cost estimate. This design work also indicated the critical RD milestones that needed to be demonstrated before the ILC could be credibly proposed to the various funding agencies. This talk will review the global R&D program and the role of the U.S. within these activities. Recent funding decisions in the U.K. and the U.S. have impacted these efforts and the current status will be outlined. A snapshot of the detector R&D program will also be given.