

U.S. DOE Collaboration Model

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(A personal perspective)

WAMS 2004

U.S. DOE HEP collaboration involves Industry, University, and National Lab groups

- Framework developed during SSC R&D era
 - direct funding for industrial development
 - information exchange through informal workshops (LTSW)
- Conclusion: This program worked well in the R&D phase, not so well in the SSC procurement phase
- Used as a model for HFSC R&D program

LTSW guidelines continued for HFSC workshops

- Open discussion of issues, not “position papers”
- By invitation only; attendance by students and “new” community members encouraged
- No publication; use of material presented only with permission of authors
- Most results published at conferences within 1 yr.

Status of HFSC program

- Focus on Nb_3Sn , insulation; to a lesser extent on Nb_3Al , Bi-2212, MgB_2
- LTSW remains a key feature
- Funding mix has changed; SBIR program plays a more important role (HEP assessment \$20 M)
- Base program funding covers gaps in SBIR program
- Format is working well; has managed to keep the U.S. program viable through some trying times

SBIR funded work on superconductors and insulation

- FY 2001
 - Nb₃Al- \$1,200K
 - PIT Nb³Sn-\$1,100K
 - MJR/Int Sn-\$400K
- FY2002
 - PIT Nb₃Sn-\$1,500K
 - MJR/Int Sn-\$700K
 - Processing-\$1,000K
- FY 2003
 - Nb₃Sn- \$1,500K
 - Nb₃Al-\$100K
 - Insulation-\$500K
 - Bi-2212-\$200K
 - Processing- \$500K
- FY2004--12 new Phase I proposals; 6(?) new Phase IIs