

❖ Snowmass 2001

- Some words about the organization and goals of Snowmass-2001 (mostly from Chris Quigg)

- How does VLHC fit into Snowmass-2001
 - What are our goals?
 - How do we organize ourselves?
 - What do we do before Snowmass-2001?



Snowmass 2001

- ❖ Organized by DPF and DPB of the APS
- ❖ Saturday, June 30 – Saturday, July 21, 2001
- ❖ Snowmass, Colorado
- ❖ Leaders
 - Chris Quigg (quigg@fnal.gov) for DPF
 - Ron Davidson (rdavidson@pppl.gov) for DPB
- ❖ We expect about **500** participants
including significant foreign participation

Snowmass 2001

- ❖ To find more information about **Snowmass-2001** go to their web site (which will be available in mid-December)

<http://snowmass2001.org>

In the meantime, email quigg@fnal.gov



❖ What should the VLHC goals be for Snowmass?

- To study and debate the major physics and technical issues of possible VLHCs
 - We might be able to come to agreement (soon after Snowmass, or, hopefully, before), on a single working model (or at least a small set) for the VLHC.
 - This working model does not have to be the one we eventually build, but it could be the focus of our efforts.
- To describe each of the machines including scenarios for staging, construction and operation
- To make an ordered list and description of the important R&D for the next five years
- To interact with our colleagues, understand their points and convince them of the rightness of ours



❖ Snowmass Goals

- Whether or not to have staging scenarios or to propose one step to 100 TeV
- It would be a tremendous advantage to go into Snowmass with a single model that we can all stand behind. **Can we do that?**
- We will have a VLHC study, probably based on a staging scenario in a single large tunnel. We can use that as a starting point. In any case, the report must be openly and vigorously debated

- ❖ The major issue of Snowmass-2001 will be the determining the most important issues of HEP and the instruments that will help us to investigate them.
- ❖ We can do a number of things at Snowmass that will amplify the VLHC Study and will establish the place for VLHC in the big picture of the VLHC

- ❖ Review the VLHC Study in the context of the broader perspectives being discussed at Snowmass
- ❖ Offer constructive and well-considered criticism of the Study to expand it, stretch it, fill in the blanks, solve the problems, come up with new ideas.
- ❖ Work on the list of problems and the R&D programs that will solve them



- ❖ In addition, for the larger issues facing HEP we can take advantage of the **Spirit of Snowmass**

- ❖ There are morning and afternoon sessions:
 - Afternoon: Study the VLHC issues
 - Morning: Bring our ideas to the sessions on the overarching issues of HEP
 - We contribute our VLHC expertise to these debates



Organization for VLHC at Snowmass-2001

- VLHC proponents might be 50 –100 people, with experts on physics, detectors, accelerator physics and technologies, magnets,...

- We might invite some non-HEP experts, like tunnelers, geologists, material scientists, etc
 - No consulting fees, but we may have to pay their expenses. I will try to work this out.

Organization for VLHC at Snowmass-2001

❖ Topics, Groups & Subgroups

- Before Snowmass, we should have the groups, subgroups and their leaders identified
 - Any individual can work on anything, of course, whether there is a subgroup, or not.
- Physics Group
- Detector group
- Accelerator group

❖ We are not ready to name the groups or leaders yet, but will be able to after a few months of the Study. We ask for your suggestions and help.

Organization for VLHC at Snowmass-2001

- ❖ In the meantime, I will act as a clearing-house and database manager until an organization is put in place
- ❖ pjlimon@fnal.gov
- ❖ (630) 840-3340

- ❖ We will need suggestions

- ❖ We will need many volunteers for group/subgroup leaders



Other News

- ❖ A number of things are happening soon:
 - There will soon be a “Briefing Book” that outlines the important HEP goals. **Read It!**
 - There will be a “White Paper” submitted to HEPAP. I have no idea.
 - There is going to be a **VLHC Study**.
Participate!
 - Jim Strait is the Study Leader – he will say a few words
 - **SNOWMASS - BE THERE!**