

R&D Board Meeting #19 1 June 2006  
Fermilab

## Introduction

### The RDB has received advice:

- From Machine Advisory Committee, the "Ideal" R&D Priorities List is fine, but a Global R&D Plan is needed
- We have been asked by the GDE EC to set up a "Task Force" to address the issue of achieving the accelerating gradient in the ILC cavities and cryomodules.

We had in fact already set up a "task force" on Klystron R&D, led by RDB member Terry Garvey. The Board felt that a broader review was needed to set the priorities for R&D on the several options for klystron development. There may not be funds to support all options effectively. The Minutes of the meeting of this group have been accepted, with the suggested priorities, and are posted on the RDB Wiki site. We had several other task forces in the works. We define them by a set of specifications that the products should meet, inspired by the milestones of Loew Rn. To distinguish them we call them Sn.

S0 – accelerating gradient in a cavity

S1 – accelerating gradient in a cryomodule

S2 – string of powered, controlled cryomodules (with beam?)

S3 – damping rings

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Today Lutz Lilje, who is chairing the S0/S1 Task Force (S1 for short), will describe the Charge agreed on. They are gathering information, for example by today's meeting, and will propose a Plan for meeting this charge to the GDE Executive Committee.

Hasan Padamsee, who is leading the S2 Task Force with Tom Himel, will give his ideas for defining the goals of S2, the first order of business of this Task Force.

Andy Wolski, who has agreed to set up S3, has been communicating a number of people in the damping ring community to see how best to set up the corresponding Task Force.

We will continue to tackle one task at a time as a way of progressing toward the R&D Plan we are asked to create.