

## **Task Force S4: Beam Delivery System Charge**

The S4 task force is formed to fulfill the following functions:

- To provide oversight for the overall coordination and progress of the BDS R&D program.
- To advise the GDE via its Global R&D Board (RDB) on the research and development program for the ILC Beam Delivery System (BDS).

The S4 membership includes three colleagues from RDB and three BDS area leaders:

- Chris Damerell, Hitoshi Hayano, Marc Ross
- Deepa Angal-Kalinin, Andrei Seryi, Hitoshi Yamamoto

The environment, in which the Task Force is operating, is described by the following assumptions:

- Overall coordination and progress of international R&D and design work in BDS area is the responsibility of BDS area leaders.
- Everyday responsibility for specific R&D work in BDS belongs to the leaders of particular work packages, which often involve two or more international partners.

In its advising and overseeing role, the Task Force is following the general charge of the RDB and of the BDS area, paying particular attention to the following:

- Perform prioritization of R&D
- Determine optimal timeline for expected progress for various R&D and how they change as ILC moves from design to construction
- Determine availability of test facilities and their suitability for specific R&D and for the integrated system tests
- Identify the programs where the expertise is spread and which have to be performed by collaboration of several international partners
- Identify duplications and determine if concentrated efforts or spreading the efforts may be beneficial
- Identify missing R&D not addressed by any institute and suggest appropriate mitigation of R&D program