
Experiment Collaboration forming sessions

- ◆ first meeting on Monday evening to introduce the subject
 - ✗ Introduction to the context
 - ✗ The BaBar example
 - ✗ The proposed path for SuperB
- ◆ second meeting on Tuesday evening to have a more detailed discussion with PIs (but open to everybody); first meeting of the SuperB Experiment proto-Council
 - ✗ Presentation of the proto-Speakers' Bureau office
 - ✗ Discussion

Summary

- ◆ brief history of the SuperB Project
- ◆ the SuperB project today
- ◆ formalizing the Experimental collaboration
- ◆ the first steps collaboration forming

Brief history

- ◆ in 2005 INFN examined the opportunities for future commitments in new promising scientific projects
 - ✗ among those: the possibility of a SuperB Flavor factories to be built in Italy
- ◆ First SuperB meeting (LNF): 11-12 nov. 2005
 - ✗ 47 participants
 - ✗ breakthrough of a new machine design pursuing very low emittance, very high luminosity, tractable experimental environment, manageable operations costs was presented for the first time
 - ✗ a proposal for a combined effort of machine, detector and theoretical physicists and engineers was launched

Introduction, motivation and status of the Superb project in Italy



Marcello A. Giorgi
Università di Pisa and INFN Pisa
Superb workshop
LNF November 11-12, 2005



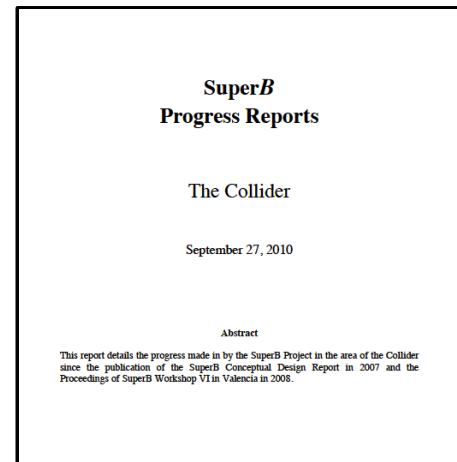
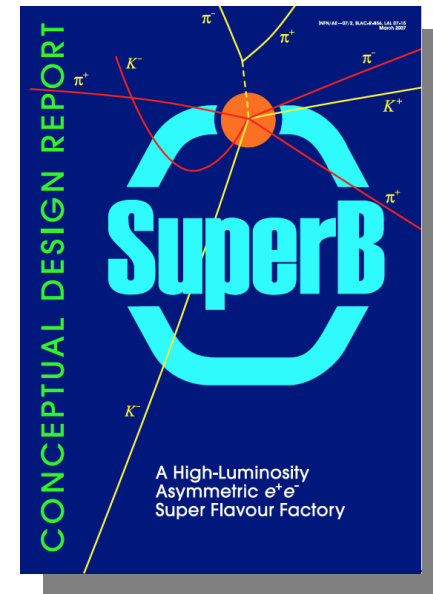
11.11.2005 LNF

Marcello A. Giorgi

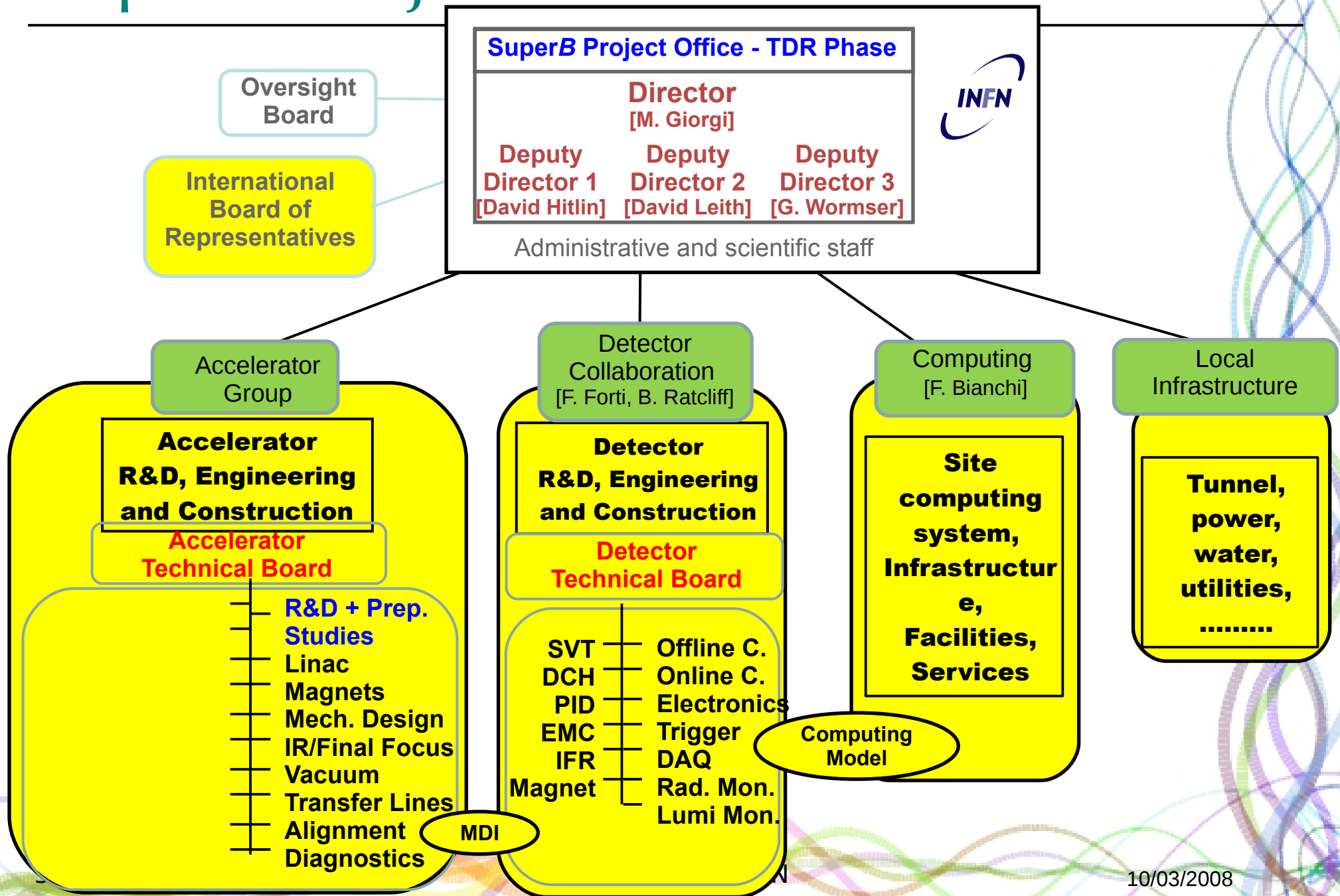


Brief history (II)

- ◆ Conceptual Design Report: March 2007
 - ✗ 85 Institutions, 320 Signatures
- ◆ Progress reports:
 - ✗ Accelerator : Sep. 27, 2010
 - ✗ Detector: June 30, 2010
 - ✗ Physics: Aug. 7, 2010
 - ✗ 42 Institutions, 237 signatures
 - ✗ Canada, France, Israel, Italy, Norway, Poland, Russia, Spain, UK, Ukraine and US
- ◆ TDR work now under way
 - ✗ TDR MoU signed with SLAC as well as with Canadian, French and Russian Institutions



SuperB Project TDR structure



Steering committee

- ◆ acting as the Project Executive Board
- ◆ composed by the project office, the Project coordinators, representation of INFN management and the regional communities

Members:

David Asner (Canada)
Fernando Martinez Vidal (Spain)
Marica Biagini (Italy)
Fabrizio Bianchi (Italy)
Umberto Dosselli (Italy)
Paco del Aguila (Spain)
Francesco Forti (Italy)
Marcello A. Giorgi (Italy)
Wolfgang Gradl (Germany)
Fergus Wilson (UK)
David Hitlin (USA)
Abolhassan Jawahery (USA)
David Leith (USA)
Tadeusz Lesiak (Poland)
Eugene B. Levichev (Russia)
Lucia Lilli (Italy)
David MacFarlane (USA)
Pantaleo Raimondi (Italy)
Blair Ratcliff (USA)
Mike Roney (Canada)
John Seeman (USA)
Achille Stocchi LAL (France)
Guy Wormser (France)

SuperB Project Management

Project Board

Project Office

- Marcello Giorgi (P.L.)
 - David Hitlin
 - David Leith
 - Guy Wormser
-
- Marica Biagini (Accelerator)
 - Pantaleo Raimondi (Accelerator)
 - John Seeman (Accelerator)
 - Mike Sullivan (Accelerator)
 - Fabrizio Bianchi (Computing)
 - Mauro Morandin (Computing)
 - Francesco Forti (Tech. coord.)
 - Blair Ratcliff (Tech. coord.)
 - Claudio Sanelli (Site)
 - Sandro Tomassini (Site)
 - Achille Stocchi (Physics)

The Experimental collaboration

- ◆ In parallel the definition of the Project Governance, it's time now that also that the Experiment collaboration gets organized
- ◆ we need to allow time for new groups worldwide to get involved in SuperB;
 - ✗ there are still a lot of opportunities to contribute in key aspects of the experiment design and construction;
 - ✗ it's essential for SuperB that the experiment collaboration grows by attracting groups of talented and motivated scientist and engineers
- ◆ but we also need time to work on and finally adopt a Constitution for the SuperB experiment collaboration which define the structure of the collaboration and how it operates
- ◆ by starting the second process now we hope that the two can converge in a time scale of approx. six months from now

Forming the collaboration

- ◆ HEP experiments have a very long history of effective collaboration management
 - ✗ and we of course will build on such experience
- ◆ In particular, many of us come from a very successful experience in BaBar, where several community mainly from US and Europe managed to coordinate their enthusiastic efforts into the very effective exploitation of the PEP-II collider at very high luminosity
 - ✗ We thought it could have been useful for the collaboration to have a presentation today of the main steps that characterized the building up and subsequent tuning of the BaBar collaboration (see D. Leith's talk)

Collaboration structure

- ◆ The collaboration needs a principal body representing the full membership of the collaboration; this is the policy-making body which also takes all major decisions within a collaboration
 - x Council in BaBar, Collaboration Boards in CMS, ...
 - ◆ Let's call it the **Council** for the moment
- ◆ The Council provides some fundamental functions:
 - x it approves the bylaws of the collaboration
 - x it takes the responsibility of the Spokesperson election
 - ◆ either by voting directly (CMS) or via a nominating committee with final ratification (BaBar)
 - x it sometimes ratifies the member of the executive board (e.g.:BaBar)
 - x nominate sub-committees for important functions, like
 - ◆ selection of speaker at conferences (Speaker's bureau)
 - ◆ proposal of new Institution membership (Membership

Executive function

◆ Spokesperson

- ◆ scientific leader of the collaboration, responsible for the execution of the SuperB experiment project

◆ Management team

- ◆ cooperate with the spokesperson in the day to day management of the experiment
- ◆ usually is composed by the leaders of the main experiment divisions (technical coordination, computing, physics analysis, trigger, etc.)

Execution overview

◆ Executive board

- × (in BaBar, Collaboration board in CMS,)
- ◆ this is the body that assists the Management in taking strategic decisions and monitors its action
- ◆ the ways this body is setup varies very widely in the collaborations
 - × in BaBar membership was defined in terms of regional representation;
 - × in CMS and ATLAS: the bulk is composed by the coordinators of the various areas and sub-systems

Technical coordination

- ◆ the Technical board, led by the Technical coordinator(s), is the body in charge of overseeing the design, construction, installation, maintenance and upgrade of the experimental apparatus
- ◆ it's usually formed by the sub-system coordinators representing the detector with all its components
 - ✗ in BaBar it turned out to be quite useful to include the presence of the coordinators of online and offline computing activities.

Finance overview

- ◆ Another important function that the Constitution should take care of, is the Experiment budget management and supervision
- ◆ this includes the essential interaction with the Funding Agencies that have to happen in a properly setup body.

Adapting to the different phases

- ◆ The governance rules should also consider carefully what's the right level of details that should be most appropriate in shaping the structure of the collaboration, taking into account the fact that the structure of a collaboration has to be able to adapt itself to meet the changing needs of the different phases:
 - ✕ design/construction, commissioning, running, ...
- ◆ in Babar, eventually, the details of the management structure, including roles and responsibilities of the individual managers and groups (like the Technical board, the Physics Analysis groups, etc.) were left to be defined by the spokesperson in her/his management plan to be ratified by the Executive Board

The path for SuperB (I)

- ◆ Forming a new collaboration requires a bootstrapping process (with some degree of flexibility)
 - ◆ running first a reduced system with limited functionality on the basis of some agreed interim rules
 - ◆ building-up from this the full functioning system

The path for SuperB (II)

- ◆ For SuperB we can imagine the process as follows:
 - ◆ we establish a proto-council composed by the PIs of the participating Institutions as a body that provides an organized way for the collaboration at large to provide input in the collaboration forming process
 - ✕ it will later be formalized in the Col lab. Council as soon as the collaboration is formed and the regulations setup
 - ◆ a Governance Committee in charge of laying down the structure and the bylaws of the SuperB collaboration is formed soon
 - ◆ the proto-council will monitor the work of the Governance Committee and will finally be involved with the approval of SuperB Constitution

Governance Committee

- ◆ The group should be formed with people that are geographically representative, have familiarity with the administrative and management requirements to manage a large international group, and have the respect of their peers.
- ◆ The group will have to closely coordinate its work with the development of the global SuperB project governance
- ◆ the proposal for the formation of the group is the following:
 - x PI's will be invited to submit nominations to the SuperB Project Steering Committee in the next two weeks
 - x the S.C. will then appoint the committee
- ◆ the committee should then start working soon to provide a first report at the September Meeting

Exp. Collaboration Membership

- ◆ Physicists and Engineers who has manifested their interest in contributing to the SuperB Project have been registered together with their Institutions and PIs
- ◆ The list is reported in the next slides for your convenience
 - ✗ it contains Institutions/people that may be interested only to participate in the Accelerator design/construction activities
 - ✗ more than one PI is also listed for some Institutions
 - ✗ so some cleanup is needed now to obtain a list of Proto-Council members
- ◆ Please let Lucia know if you are not listed or your Institution doesn't appear

Comments/suggestions/questions ?

Current list of Institutions and PIs (I)

Country	Institution	Name
Canada	Carleton University	David Asner
	McGill University	Steven Robertson
	TRIUMF	Robert Henderson
	University of British Columbia	Chris Hearty
	University of Montréal	Paul Taras
	University of Victoria	Michael Roney
France	LAL - Orsay	Nicolas Arnaud
	LAPP - Annecy	Andrea Jeremie
	LPSC - Grenoble	Maud Baylac
	LPHNE - Paris	Eli Ben Haim
	CEA - Saclay	Olivier Napoly
Russia	INP - Budker	Yuri Skovpen
	ITEP - Moscow	Alexey Drutskoy
Spain	Universitat de Barcelona (UB)	Eugeni Grauges Pous
	IFIC, Universidad de Valencia-CSIC	Fernando Martinez-Vidal
UK	Queen Mary, University of London	Adrian John Bevan
	University of Warwick	Tim Gershon
	Univ. of Liverpool and the Cockcroft Institute	Andy Wolski

Current list of Institutions and PIs (II)

Country	Institution	Name
	RAL	Fergus Wilson
Ukraine	INR - Kiev	Volodymyr Aushev
USA	LBL	David Brown
	University of Cincinnati	Brian T. Meadows
	University of Cincinnati	Mike D. Sokoloff
	Caltech	Frank C. Porter
	SLAC	David Aston
	University of Maryland	Hassan Jawahery
	University of Maryland	Douglas Roberts
	UC Irvine	David Philip Stoker
	University of Notre Dame	Ikaros Bigi
Israel	Tel Aviv University	Abner Soffer
Italy	Bari	Antimo Palano
	Bari	Mario Nicola Mazziotta
	Bologna	Maurizio Piccinini
	Bologna	Umberto Marconi
	Cagliari	Massimo Carpinelli
	Catania	Nunzio Randazzo
	CNAF	Mauro Morandin

Current list of Institutions and PIs (III)

Country	Institution	Name
	Ferrara	Eleonora Luppi
	Ferrara	Roberto Calabrese
	Genova	Stefano Passaggio
	Lecce	Franco Grancagnolo
	LNF	Giuseppe Finocchiaro
	LNF	Ida Peruzzi
	LNS	Giacomo Cuttone
	Milano	Fernando Palombo
	Napoli	Alberto Aloisio
	Napoli	Crisostomo Sciacca
	Padova	Mario Posocco
	Pavia	Lodovico Ratti
	Pavia	Valerio Re
	Perugia	Claudia Cecchi
	Perugia	Pasquale Lubrano
	Pisa	Francesco Forti
	Pisa	Giuliana Rizzo
	Pisa	Marcello Giorgi

Current list of Institutions and PIs (IV)

Country	Institution	Name
	Roma 1	Giancarlo Piredda
	Roma 1	Riccardo Faccini
	Roma 2	Anna Di Ciaccio
	Roma 3	Eleuterio Spiriti
	Roma 3	Paolo Branchini
	Torino	Diego Gamba
	Torino	Fabrizio Bianchi
	Trieste	Livlio Lanceri
	Trieste	Lorenzo Vitale