SPC Report to Council

17-December-2010

E. Fernandez

SPC Terms of Reference

CERN/SPC/313/Rev.6 CERN/2812 20 November 2008

- (a) to make recommendations to the Council on the priorities of research programmes and the allocation of research effort both within the Laboratories of the Organization and extramurally;
- (b) to examine annually the medium-term plan which defines the objectives and activities of the Organization for the following five budget years, and to make recommendations to the Council in that regard;
- (c) to assess annually the achievements of the Organization with regard to the annual goals set for the previous year;
- (d) to advise the Council from the point of view of scientific policy on the management and staffing of the Organization, including the programmes concerning the fellows and associated members of the personnel as well as senior staff appointments by the Council;
- (e) to advise the Council on any other matters which affect the scientific activities of the Organization.

Members as from January 2010

Ex-Officio Members

R. Aleksan	France	P.A. Butler	Chairman INTC
J. Aysto	Finland	C. Vallee	Chairman SPSC
A. Bondar	Russia	T. Wyatt	Chairman LHCC
B. P. Braun-Munzinger	Germany	T. Nakada	Chairman ECFA
M. Diemoz	Italy		
R.K. Ellis	USA/UK		
E. Fernandez (Chair)	Spain	Also Present	
D. Fournier	France	R. Heuer	Director-General
M. Harrison	USA/UK	M. Spiro	President of Council
D. Hartill	USA	M. Steinacher	FC Chairman
H. Murayama	USA/Japan		
C. Spiering	Germany		
G. 't Hooft	Netherlands		
K. Tokushuku	Japan		
D. Wark	UK/USA		
F. Zwirner	Italy		

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A. Bondar	Russia	T. Wyatt 🦠		
B. P. Braun-Munzinger	Germany	E. Elsen 🧹	Chairman LHCC	
M. Diemoz	Italy	T. Nakada	Chairman ECFA	
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C. Spiering	Germany	Also Present		
G. 't Hooft	Netherlands	R. Heuer	Director-General	
K. Tokushuku	Japan	M. Spiro	President of Council	
D. Wark	UK/USA	M. Steinacher		
F. Zwirner (Chair)	Italy	B. Jacobsen	FC Chairman	

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M. Diemoz	Italy	T. Nakada	Chairman ECFA
R.K. Ellis	USA/UK		
E. Fernandez (Chair)	Spain ->	Natalie Roe	USA
D. Fournier	France -	Terry Wyatt	UK
M. Harrison	USA/UK		
D. Hartill	USA →	Leonid Rivkin	CH
H. Murayama	USA/Japan		
C. Spiering	Germany	Also Present	
G. 't Hooft	Netherlands	R. Heuer	Director-General
K. Tokushuku	Japan	M. Spiro	President of Council
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F. Zwirner (Chair)	Italy	B. Jacobsen	FC Chairman

The committee meets 4 times/year (Mon. & Tues. Council Weeks) + 1 special meeting in May (devoted to MTP)

- Standing items in agenda (taken from Dec 2010):
- 1. Adoption of the Agenda
- 2. Approval of the Draft Minutes of the Two-Hundred-and-Sixty-Third Meeting
- 3. Matters Arising
- 4. Chairman's Report
- 5. Briefing by the President of Council
- 6. Member State Matters (Director-General Oral)
- 7. Non-Member State Matters (Director-General Oral)

• Standing items in agenda (cont.):

8. LHC Matters:

- Status report on the LHC Machine (S. Myers Oral)
- Status report on LHC Experiments and Computing (S. Bertolucci Oral)

at the end of 2010:

"...It Was a Very Good Year..."

LHC

March 30, 2010: First collisions at 3.5 TeV/beam

April 19, 2009: Doubled the luminosity (intensity and squeeze)

One month run for experiments

May 22, 2010: 13 bunches/beam. Peak luminosity 2x10²⁹

May 26, 2010: Reached design bunch intensity of 10¹¹ protons

Sept. 14, 2010: $\approx 4 \text{ pb}^{-1}$ integrated luminosity. Peak lumi. 1.1×10^{31}

Sept. 24, 2010: 7 trains, 8-bunches/train. Peak lumi. 2x10³¹, very stable

October 13, 2010: Peak luminosity 1.01x10³². Exceeded goal for the year.

November 4, 2010: End proton run $\approx 2x10^{32}$. Exceeded goal for the year.

November 7, 2010: Start of Lead-Ion run. 82x3.5TeV = 287 TeV collisions

December 6, 2010: End Lead-Ion run. Exceeded goal for the year.

Experiments and Computing Grid

From Director for Research and Computing last year:

"The experiments are in an unprecedented state of readiness"

At the end of 2010:

The experiments are performing in an unprecedented way

Since the interim report in June:

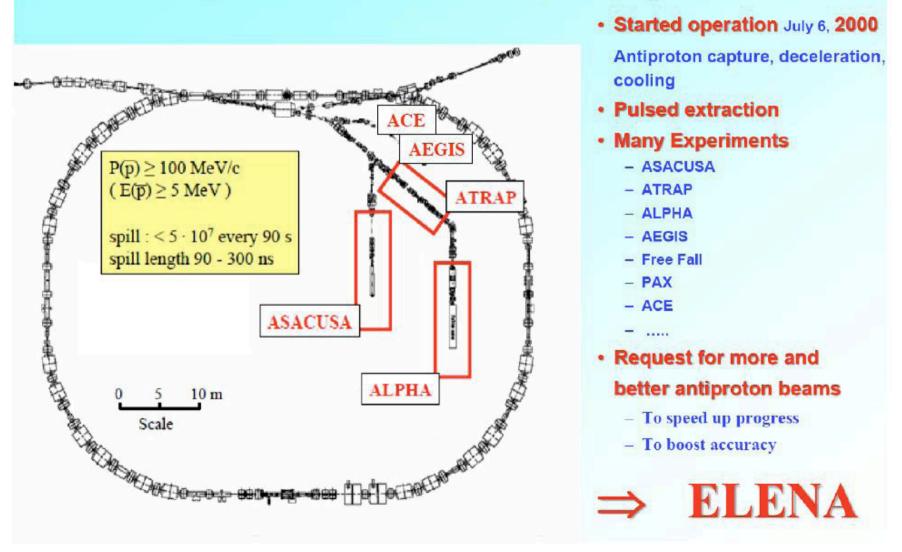
- Special meeting at the end of August to discuss the Medium Term Plan
- Meeting on 13-14 of September
 - Report on 35th International Conference on High Energy Physics (ICHEP), July 22-28, Paris (A. Bondar)
 - •Report on the XXIV International Conference on Neutrino Physics and Astrophysics, June 14-19, Athens (D. Wark)
 - Presentation on ATLAS (F. Gianotti) and CMS (J. Incandela)
 - Preparation of the September European Strategy Session

Since the interim report in June:

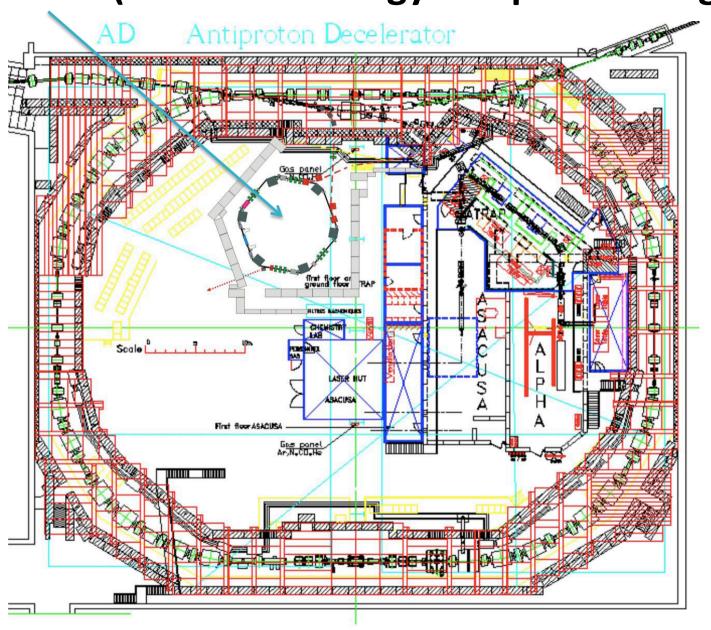
- Meeting on 13-14 of December
 - Plans for MTP (running in 2012?)
 - Selection of new members
 - Presentation on ALICE (P. Giubellino) and LHCb (A. Golutvin)
 - Preparation on ELENA (W. Oelert)
 - Fellows, Associates and Students Programs (J. Purvis)
 - Short report on Geographical Enlargement (R. Petronzio)

ELENA (Extra Low Energy Antiproton Ring)





ELENA (Extra Low Energy Antiproton Ring)



On behalf of the SPC

Many thanks to all of you for listening to us

Special thanks to the "minute writers" for their excellent work

Special thanks to the Council Secretariat for their diligence in preparing the meetings.