MEMORANDUM

To: The members of the Research Board
From: The PSC
Subject: Minutes of the sixth PSC meeting held on 9 and 10 May, 1977


The PSC received the following papers:

- PSC
  PSC Experiments - 8 May, 1977 (CERN/PSC/77-20/L5 revised version).

- PSC
  Index of PSC documents from 31.1.77 to 31.4.77 (CERN/PSC/77-21/L6).

- Edinburgh-Rutherford-Westfield College
  Proposal: To measure A and R parameters in the reaction \( \pi^+ p \rightarrow K^+ \Xi^+ \) (CERN/PSC/77-23/P7; PSC/77-24/S7).

- The CHMSSSV Collaboration
  Addendum to proposed investigation of strange dibaryon systems, CERN/PSC/76-21/P1 of 20.12.76 (CERN/PSC/77-25/P1 Add. 1 + 9 appendices).

- G. Charpak
  Memorandum: Proposal for an experiment at \( m_{\Xi} \) (CERN/PSC/77-27/M14).

OPEN SESSION:

1. Introductory remarks by Prof. Van Hove:
   a. It is proposed to set up an Advisory Committee of CERN Users. This committee would have the task to advise the CERN Direction on the practical problems related to the utilization of the CERN facilities for research. This proposal will be discussed at the June meeting of the Committee of Council.
b. In order to facilitate the control of safety aspects in a given approved experiment within the CERN programme, it is proposed to request the Spokesman of each experiment to nominate a Group Leader in matters of safety, who will liaise with the relevant sections in the CERN organization. The fact of being group leader in matters of safety for an experimental collaboration does not imply that the collaboration member in question carries group leader responsibilities in other matters.

c. Prof. Van Hove mentioned the discussions on future projects which were taking place in the SPC. In April the committee had received a presentation of a modest e-p colliding beam project which would utilize the SPS ring. The p-p proposal for SPS had been presented earlier, and it was envisaged that a comparative discussion would take place in October. Part of the June SPC meeting would be devoted to a discussion of the physics case for high energy e+e- collisions.

2. Proposal to study p X-rays in isotopically pure targets by the Basel-Karlsruhe-Stockholm collaboration (CERN/PSC/77-18/P6; PSC/77-19/S6) presented by L. Tauscher.

3. Proposal to measure A and R parameters in the reaction π^+p \rightarrow K^+Σ^+ by the Edinburgh-Rutherford-Westfield College collaboration (CERN/PSC/77-23/P7; PSC/77-24/S7) presented by P. Litchfield.

CLOSED SESSION:

The outgoing PS Coordinator B. French presented a status report on the programme at the PS. In it he emphasized the support he had received from the PS Division in the difficult task of accommodating the many test experiments in addition to the approved physics programme. The Chairman thanked B. French for all his work on behalf of PS physics and welcomed the new coordinator J.M. Perreau.

Discussion of New Proposals:

A) Proposal for the study of p X-rays in isotopically pure targets by the Basel-Karlsruhe-Stockholm collaboration (PSC/77-18/P6).

The PSC received the report of the referee S. Kullander. After some discussion it was decided to defer a decision until further clarification had been obtained on the priorities of the collaboration, since new interesting physics aspects were presented at the Open Session and raised by the referee.

B) Proposal to measure A and R parameters in the reaction π^+p \rightarrow K^+Σ^+ by the Edinburgh-Rutherford-Westfield College collaboration (PSC/77-23/P7)

The PSC received a report from the referee E. Lorenz and expressed an interest in the physics of the proposal, but
defers a decision until it is clear what impact the installation of the Rutherford Multiparticle Spectrometer would have on the future long term arrangement of beams in the East Hall.

C) Rediscussion of the proposal for an investigation of strange dibaryon systems by the CERN-Heidelberg-Madrid-MPI Munich-Saclay-Stockholm-Vanderbilt collaboration (PSC/76-21/P1; PSC/77-25/P1 Add.1).

During the first discussion at the January meeting of the PSC several questions had arisen concerning the physics, technical, and support aspects. The committee had received written replies to all questions. In particular the new estimate of the production cross-section for the $H_2$ system had lead to a revision of the original proposal. HYBUC would now be used primarily to understand better the $H_1$ effect ($\Lambda p$). The PSC felt that it could not recommend this proposal for approval.

Status report on the installation programme in the East Hall:

The PSC received a report on the installation programme in which the new beams $p_{17}$ and $k_{22}$ would be installed on the timescales envisaged at the March meeting. The programme also still included the provision of a high intensity, high beam level, area for the tests proposed by NA3 and the European Muon Collaboration. This installation would delay the building of $k_{23}$ - a low energy antiproton beam. The question of the seriousness of this delay to the newly proposed programme of the Basel-Karlsruhe-Stockholm collaboration will be clarified for the next PSC meeting.

Papers received:

1. The PSC took note of the memorandum (PSC/77-27/M14) withdrawing the proposal for an experiment on Proton Radiography by the CERN-Saclay collaboration (PSC/77-9/P3). The collaboration requests testing time for apparatus in the $m_{1\mu}$ beam.

2. A letter from G. Munday informed the PSC of the intention of experiment S155 to request a run with alpha particles in the PS at some future date. The committee took note of this intention.

The next meeting of the PSC will be on Tuesday, 14 June at 2.30 p.m. in the EP Conference Room (Closed Session). There will be no Open Session.

The provisional dates for future PSC meetings are 19 and 20 September and 21 and 22 November, 1977.