

CERN/3329
Original: French
18 December 2017

ORGANISATION EUROPÉENNE POUR LA RECHERCHE NUCLÉAIRE
CERN EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH

COUNCIL

Hundred-and-eighty-fifth Session
Geneva – 15 and 16 June 2017

OPEN SESSION

MINUTES

As the Draft Minutes (CERN/3329/Draft, dated 9 October 2017) were approved without amendment at the Hundred-and-Eighty-Seventh Session of the Council on 15 December 2017, the attached document can be regarded as the final version.

CERN/3329/Draft
Original: French
9 October 2017

ORGANISATION EUROPÉENNE POUR LA RECHERCHE NUCLÉAIRE
CERN EUROPEAN ORGANIZATION FOR NUCLEAR RESEARCH

COUNCIL

Hundred-and-eighty-fifth Session
Geneva – 15 and 16 June 2017

OPEN SESSION

DRAFT MINUTES

TABLE OF CONTENTS

Section	Page
LIST OF PARTICIPANTS	i
1. APPROVAL OF THE DRAFT MINUTES OF THE 183RD OPEN SESSION HELD ON 16 DECEMBER 2016	1
2. REPORT ON THE DECISIONS TAKEN AT THE RESTRICTED AND CLOSED SESSIONS	1
3. REPORT BY THE CHAIR OF THE FINANCE COMMITTEE	2
4. REPORT BY THE CHAIR OF THE SCIENTIFIC POLICY COMMITTEE.....	3
5. ANNUAL PROGRESS REPORT	4
6. FINANCIAL STATEMENTS OF CERN	6
7. FINANCIAL STATEMENTS OF THE CERN PENSION FUND.....	8
8. DRAFT TIMETABLE FOR COUNCIL SESSIONS AND COMMITTEE MEETINGS IN 2018	10
9. LHC MATTERS	10
10. REPORT ON PARTICLE PHYSICS IN SOUTH KOREA	12
11. LAUNCH OF THE CERN ALUMNI PROGRAMME	12
12. IMPACT OF CERN ON YOUNG PEOPLE'S CAREERS OUTSIDE HIGH ENERGY PHYSICS	13
13. CONFIRMATION OF ACCESS STATUS OF DOCUMENTS	14
14. OTHER BUSINESS	14

LIST OF PARTICIPANTS – OPEN SESSION
16 June 2017

<u>President:</u>	Prof. Sijbrand de Jong	Netherlands
<u>Participants:</u>	Prof. Jochen Schieck	Austria
	Prof. Dirk Ryckbosch	Belgium
	Prof. Leandar Litov Prof. Dimitri Tonev	Bulgaria
	Prof. Rupert Leitner Mr Petr Martinek Mr Ondřej Novák	Czech Republic
	Mr René Michelsen	Denmark
	Dr Pentti Pulkkinen	Finland
	Prof. Ursula Bassler Ms Sylvie Péron	France
	Prof. Siegfried Bethke Dr Thomas Roth Dr Beatrix Vierkorn-Rudolph	Germany
	Prof. Konstantinos Fountas	Greece
	Ms Barbara Vizkelety	Hungary
	Prof. Eliezer Rabinovici	Israel
	Prof. Umberto Dosselli Prof. Fernando Ferroni	Italy
	Prof. Eric Laenen Dr Joseph T.M. Rokx	Netherlands
	Prof. Eivind Osnes Ms Kjersti Sommerset	Norway
	Mr Dariusz Drewniak Prof. Jan Królikowski	Poland
	Prof. Gaspar Barreira	Portugal
	Dr Florin Buzatu	Romania

Ms Cristina Melinte	
Prof. Branislav Sitár	Slovakia
Mr Rafael Górgolas Prof. Mario Martinez	Spain
Prof. Richard Brenner	Sweden
Mr Patrick Pardo Prof. Olivier Schneider	Switzerland
Dr Brian Bowsher Prof. Tara Shears	United-Kingdom

Associate Member State in the Pre-stage to Membership:

Not represented	Cyprus
Prof. Peter Adžić	Serbia

Associate Member States:

Mr Mohammad Abdullah	India
Mr Syed Atif Raza	Pakistan
Mr Zafer Alper	Turkey
Prof. Borys Grinyov Dr Maxim Titov Prof. Anatoly Zagorodny	Ukraine

Also Present:

Prof. Halina Abramowicz	Chair of ECFA
Prof. Keith Ellis	Chair of the Scientific Policy Committee
Mr Ossi Malmberg	Chair of the Finance Committee

External Auditors from NIK:

Mr Wieslaw Kurzyca
Mr Augustyn Kubik
Mr Maciej Maciejewski

CERN Officials:

Dr Fabiola Gianotti	Director-General
Dr Frédéric Bordry	Director for Accelerators & Technology
Prof. Eckhard Elsen	Director for Research & Computing
Dr Martin Steinacher	Director for Finance & Human Resources
Ms Charlotte Warakaulle	Director for International Relations

Observers:

Dr Philippe Froissard	Representative of the EC
Dr Nicolai Russakovic	Representative of JINR
Mr Ryoei Chijiwa Prof. Kazunori Hanagaki Mr Masani Gomita	Representatives of Japan
Prof. Pavel Logachev Mr Vladimir Malinkin	Representatives of the Russian Federation
Dr Saul Gonzalez Dr Abid Patwa	Representatives of the USA
Mr Jean-Paul Ngome Abiaga	Representative of UNESCO

CERN Services:

Dr Eva-Maria Gröniger-Voss	Legal Counsel
Ms Natalie Garde Ms Lisa Morris	Minute-Writers
Ms Brigitte Van der Stichelen Ms Vedrana Zorica	Council Secretariat

OPEN SESSION

The meeting resumed in Open Session at 9.00 a.m. on Friday, 16 June.

The PRESIDENT welcomed Ms C. Melinte, adviser to the Romanian delegation, and Professor T. Shears, adviser to the United Kingdom delegation, as well as the External Auditors from the Polish Supreme Audit Office (NIK): Mr W. Kurzyca, Mr A. Kubik and Mr M. Maciejewski. He further welcomed the Observers: Dr P. Froissard of the European Commission, Mr R. Chijiwa, Professor K. Hanagaki and Mr M. Gomita of Japan, Professor P. Logachev and Mr V. Malinkin of the Russian Federation, Dr S. Gonzalez and Dr A. Patwa of the United States and Mr J-P. Ngome Abiaga of UNESCO. Apologies had been received from Professor Skrinsky of the Russian Federation, Dr Siegrist of the United States and Ms Bokova and Ms Schlegel of UNESCO.

1. APPROVAL OF THE DRAFT MINUTES OF THE 183RD OPEN SESSION HELD ON 16 DECEMBER 2016

(Item 1 of the Agenda) (CERN/3301/Draft)

The Minutes of the one-hundred-and-eighty-third Session, Open Session ([CERN/3301](#)), were approved.

2. REPORT ON THE DECISIONS TAKEN AT THE RESTRICTED AND CLOSED SESSIONS

(Item 2 of the Agenda) (Oral)

The PRESIDENT reported¹ on the decisions taken by the Council at its Restricted and Closed Sessions in March and June 2017, highlighting the following:

- the approval of the terms of reference of the new CERN Audit Committee, replacing the Standing Advisory Committee on Audits (SACA);
- the decision to revisit the possibility of modifying the CERN pension conditions for new recruits following each three-yearly periodic actuarial review, taking due account of the financial evolution of the Fund and of the Consulting Actuary's updated projection of the cost of closing the existing scheme;

¹ Presentation available at <https://indico.cern.ch/event/640608/>

- the approval of the procedure for the selection and appointment of the Strategy Secretary for future updates of the European Strategy for Particle Physics, as well as the specific profile required for the next update to be completed in May 2020;
- the approval of the Medium-Term Plan for the years 2018-2022 and the draft 2018 Budget in 2017 prices;
- the approval of the 2018 scale of Member States' contributions to be applied to the final Budget for 2018 in 2018 prices;
- the approval of the strategy and framework applicable to knowledge transfer by CERN for the benefit of medical applications;
- the conclusion of an International Cooperation Agreement with the Government of Nepal;
- the approval of a set of amendments to the CERN Financial Rules, in particular the Purchasing Rules;
- in the framework of geographical enlargement, the establishment of a fact-finding task force to visit Serbia, whose application to become a Member State was still pending, and the adoption of a resolution concerning the admission of Lithuania as an Associate Member State;
- the appointment of Dr Brian Bowsher as the Council member of the Audit Committee;
- the re-election of Professor Jens-Jørgen Gaardhøje as Vice-President of the Council;
- the election of Professor Barbro Åsman as Chair of the Tripartite Employment Conditions Forum (TREF);
- the re-appointment of Mr Matthew Eyton-Jones as Chief Executive Officer of the CERN Pension Fund;
- the appointment of the National Audit Office of Finland as the next External Auditors of the Organization.

The Council took note of the President's report on the decisions taken at the Restricted and Closed Sessions in March and June 2017.

3. REPORT BY THE CHAIR OF THE FINANCE COMMITTEE

(Item 3 of the Agenda)

Mr MALMBERG reported² on the issues examined at the Finance Committee's June 2017 meeting, in particular:

² Presentation available at <https://indico.cern.ch/event/640608/>

- the 2016 Annual Progress Report, in respect of which the External Auditors had voiced satisfaction with the new section on Key Performance Indicators, and the 2016 CERN Financial Statements;
- the 2016 Annual Report and Financial Statements of the CERN Pension Fund;
- the status of payment of Member State and Associate Member State contributions for 2017 (83% of contributions settled to date as at 12 June, compared with 79% and 67% at the same point in 2016 and 2015 respectively);
- the forecast cash position, which was such that no short-term loans would be required in 2017 provided that there were no delays in the payment of the remaining contributions;
- the cumulative budget deficit, in respect of which the Committee had voiced appreciation to the Management for its efforts to keep it under control;
- the scale of contributions for 2018;
- preliminary information on the Cost-Variation Index for 2018;
- the situation of the CERN Pension Fund;
- the approval of a significant number of contract adjudication proposals;
- the recommendations of the external review committee on the use and optimisation of CERN's financial and human resources and the progress made towards their implementation.

The Council took note of the report by the Chair of the Finance Committee, Mr Malmberg, on the issues discussed at the Committee's meetings in March and June 2017.

4. REPORT BY THE CHAIR OF THE SCIENTIFIC POLICY COMMITTEE

(Item 4 of the Agenda)

Professor ELLIS reported on the Scientific Policy Committee's discussions at its March, May and June 2017 meetings³. In particular, the Committee had heard reports on the status of preparations to increase the LHC energy to 14 TeV and beyond and had requested that it be kept informed of the planning to achieve the various milestones. It had also taken note of a report on the progress of the neutrino platform, which the members had been given the opportunity to visit. Congratulating the Management on what had been achieved so far, the Committee had underlined that it was important for the platform to serve as a focus for European experimental and theoretical work in the neutrino physics field. In the context of a report on the long-range plan of NuPECC, it had expressed appreciation for the important role played by CERN in the future plans of the nuclear physics community. During its Restricted

³ Full report available at <https://indico.cern.ch/event/640608/>

Session in June, the Committee had selected three new members to serve from 1 January 2018; subject to confirmation of their availability, a recommendation for their appointment would be submitted to the Council for approval in December. Finally, the Committee's September agenda would include reports on the progress of the Future Circular Collider (FCC) studies and on the highlights of the summer conferences.

The Council took note of the report by the Chair of the Scientific Policy Committee, Professor Ellis, on the Committee's discussions at its March, May and June 2017 meetings.

5. ANNUAL PROGRESS REPORT

(Item 5 of the Agenda)

a) Annual Progress Report for 2016

([CERN/SPC/1084/Rev.-CERN/FC/6096/Rev.-CERN/3294/Rev.](#))

Dr STEINACHER announced that, the previous day, the Organization had received the sum of 2.384 MCHF from Turkey, in settlement of its second instalment for 2017.

Presenting document [CERN/SPC/1084/Rev.-CERN/FC/6096/Rev.-CERN/3294/Rev.](#)⁴, he noted that it was essentially unchanged compared to the version presented to the Scientific Policy Committee, the Finance Committee and the Council in March but that it had been amended and supplemented to take account of their feedback, as well as of the comments by the External Auditors. Among other things, the section on Key Performance Indicators had been expanded to include more details of occupational accidents by type of personnel, and an annex showing past trends in that regard had been added. He wished to thank the External Auditors and the delegations for their suggestions, which had helped to further improve the document.

b) Assessment and Comments by the External Auditors on the 2016 Annual Progress Report

([CERN/FC/6123-CERN/3309](#))

Mr KURZYCA, presenting document [CERN/FC/6123-CERN/3309](#) on behalf of the External Auditors, confirmed that the information set out in the Annual Progress Report was consistent, in all material respects, with the information contained in the CERN Financial Statements for 2016. The External Auditors welcomed the introduction of Key Performance Indicators for all the important areas of CERN's scientific and non-scientific activities, in line with one of their previous recommendations. The only improvement they suggested was that

⁴ Presentation available at <https://indico.cern.ch/event/640608/>

the KPI section be supplemented, for the benefit of non-specialists, with explanations of some of the physical units used to measure performance.

c) Assessment and Comments by the SPC on the Annual Progress Report for 2016

Professor ELLIS reported that, at its June meeting, the Scientific Policy Committee had voiced appreciation for the highly successful operation of the LHC in 2016, which had delivered about 60% more data to the general-purpose detectors than anticipated. The Committee had noted the positive financial results for the Organization, which were partly the result of the Management's efforts to optimise the use of resources, and had also noted the good progress made in many scientific areas. Acknowledging the efforts made to improve the document's readability, it had thanked the Management for including in the final version data on occupational accidents over the past thirty years, which showed a generally downward trend.

d) Assessment and Comments by the Finance Committee and the Audit Committee on the Annual Progress Report for 2016

Mr MALMBERG stated that the Finance Committee had taken note of the document and of the External Auditors' assessment and comments but had not made any specific observations itself. The Audit Committee had welcomed the fact that a number of high-priority Internal Audit recommendations that had been outstanding for some time had now been closed. While the Internal Audit service was also making good progress with its 2017 programme of work, the Audit Committee had voiced concern that unscheduled assignments could easily throw the internal audit schedule off course, bearing in mind the service's limited resources.

The Council took note of:

- the information set out in document CERN/SPC/1084/Rev.-CERN/FC/6096/Rev.-CERN/3294/Rev. and of the introductory remarks by the Director for Finance and Human Resources, Dr Steinacher;
- the External Auditors' assessment of and comments on the 2016 Annual Progress Report, as set out in document CERN/FC/6123-CERN/3309, and of the presentation by Mr Kurzyca, team leader from the Supreme Audit Office of Poland (NIK);
- the oral reports by Professor Ellis, Chair of the Scientific Policy Committee, and Mr Malmberg in his capacity as Chair of the Finance Committee and the Audit Committee, on the outcome of those committees' examination of the 2016 Annual Progress Report at their respective meetings in June 2017;

and, on the recommendation of the Finance Committee, unanimously decided to approve the 2016 Annual Progress Report set out in document CERN/SPC/1084/Rev.-CERN/FC/6096/Rev.-CERN/3294/Rev.

6. FINANCIAL STATEMENTS OF CERN

(Item 6 of the Agenda)

a) Financial Statements for 2016

(CERN/FC/6117-CERN/3303)

Dr STEINACHER announced that the sum of 26.718 MCHF had just been received from the Netherlands, in settlement of its second instalment for 2017. Added to the amounts that had arrived from Austria and Turkey earlier in the week, that payment brought the total contributions received for the year to 87%.

He then presented document CERN/FC/6117-CERN/3303⁵, highlighting the following information:

- a budget surplus of 84.8 MCHF, compared to the initially anticipated deficit of 8.5 MCHF, mainly due to the re-profiling of certain expenses;
- recognition of actuarial gains relating to post-employment benefits of 434.6 MCHF, following a review of the actuarial parameters that had resulted in a reduction of the expected inflation rate applicable to long-term care costs;
- an increase in the net assets of 296.7 MCHF, bringing the balance at the end of 2016 to -329.7 MCHF, compared to the restated balance of -626.4 MCHF (reported in the 2015 financial statements as -598.3 MCHF prior to restatement);
- restatement of the previous year's financial position and cumulative balances as a result of adjustments to the opening balances in the Property, Plant and Equipment framework and a change in the accounting policy used to calculate the provision for the elimination of radioactive waste.

Noting that the 2017 financial statements would be the last to be audited by the Supreme Audit Office of Poland, he extended thanks to the External Audit team for their continued constructive collaboration during the audit process.

⁵ Presentation available at <https://indico.cern.ch/event/640608/>

- b) Report by the External Auditors on the Financial Statements of CERN for the 2016 Financial Year
([CERN/FC/6118 CERN/3304](#))
- c) Recommendations from the External Auditors to the CERN Management on the Financial Statements of CERN and Comments from the CERN Management
([CERN/FC/6119 – CERN/3305](#))

Mr KURZYCA presented documents CERN/FC/6118-CERN/3304 and CERN/FC/6119-CERN/3305 on behalf of the External Auditors, confirming their opinion that the Financial Statements for 2016 presented fairly, in all material respects, the Organization's financial position as at 31.12.2016, its financial performance and its cash flows for the year, and that the underlying transactions had been conducted in compliance with the relevant rules and regulations. The External Auditors' report included an emphasis of matter, in which the Council's attention was drawn to the increase in post-employment liabilities compared to the 2015 Financial Statements. In that connection, he wished to underline the importance of continuing to monitor the Pension Fund's funding situation on an annual basis. Finally, in the letter to the CERN Management that had accompanied their report, the External Auditors had made five observations with a view to improvements in the following areas: the physical control of Property, Plant and Equipment; the flow of remuneration data; the valuation of inventories; blanket authorisations in the framework of the procurement process; and the internal control system.

- d) Assessment and Comments by the Finance Committee and the Audit Committee on the Financial Statements of CERN for 2016
(Oral)

Mr MALMBERG, in his capacity as Chair of the Finance Committee and of the Audit Committee, reported that both committees had examined the 2016 Financial Statements and received assurances from the External Auditors that they gave a fair representation of the Organization's financial position.

The Council took note:

- of document CERN/FC/6117-CERN/3303 and of the presentation by Dr Steinacher;
- of documents CERN/FC/6118-CERN/3304 and CERN/FC/6119-CERN/3305 and of the presentation by Mr Kurzyca on behalf of the External Auditors;

- of the report by Mr Malmberg, in his capacity as Chair of the Finance Committee and of the Audit Committee, on the outcome of those committees' examination of CERN's 2016 Financial Statements at their respective meetings in June 2017;

and, on the recommendation of the Finance Committee, unanimously decided:

- to approve the 2016 Financial Statements set out in document CERN/FC/6117-CERN/3303; and
- - to grant discharge to the Director-General.

7. FINANCIAL STATEMENTS OF THE CERN PENSION FUND

(Item 7 of the Agenda)

a) Annual Report and Financial Statements for the Year Ended 31 December 2016
([CERN/FC/6120-CERN/3306](#))

Mr EYTON-JONES presented the Annual Report and Financial Statements of the CERN Pension Fund for 2016⁶, drawing attention to net assets of 4.06 BCHF at 31 December, which represented a decrease of 33 MCHF compared to the situation a year earlier, as well as to funding ratios at that date of 39.9% calculated according to IAS 26 and 72.5% calculated according to the best-estimate assumptions.

b) Report of the External Auditors on the Annual Report and Financial Statements for the Year Ended 31 December 2016
([CERN/FC/6121/Rev.-CERN/3307/Rev.](#))

c) Recommendations from the External Auditors to the CERN Pension Fund Management on the Annual Report and Financial Statements for the Year ended 31 December 2016 and Comments by the CERN Pension Fund Management
([CERN/FC/6122-CERN/3308](#))

Mr KURZYCA presented documents CERN/FC/6121-CERN/3307 and CERN/FC/6122-CERN/3308 on behalf of the External Auditors, highlighting their unqualified audit opinions on the Fund's Financial Statements and on compliance with the relevant rules and regulations. Drawing attention to a comment in their report concerning the methodology and data used to calculate the investment performance figure shown in the Annual Report, he noted that the resulting figure of 1.48% was slightly higher than the return on assets calculated in accordance with the standard method, i.e. the ratio of net investment income for the year to

⁶ Presentation available at <https://indico.cern.ch/event/640608/>

total assets at year end, namely 1.41%. He further highlighted the External Auditors' emphasis of matter regarding the Fund's increased technical deficit and decreasing net assets. Finally, in their letter to the Fund's Management, the External Auditors had discussed two outstanding recommendations from previous years, one relating to implementation of the COSO framework for the Fund's internal control system and the other to the register of interests for members of the Management Unit, the Governing Board and its sub-committees, both of which were on track to be closed the following year. No new observations had been formulated for the 2016 financial year.

d) Assessment and Comments by the Finance Committee and the Audit Committee on the Financial Statements of the CERN Pension Fund for 2016

Mr MALMBERG, in his capacity as Chair of the Finance Committee and of the Audit Committee, reported that the Finance Committee had unanimously recommended that the Council approve the Financial Statements of the CERN Pension Fund for 2016 and that it grant discharge to the Pension Fund Governing Board. In addition, the Audit Committee had underlined the importance of continued close monitoring of the 2010 package of measures to restore the Fund to full funding, and had congratulated the Pension Fund Management Unit on the progress made in the implementation of previous audit findings and on the absence of any new recommendations.

The Council took note of:

- documents CERN/FC/6120-CERN/3306, CERN/FC/6121/Rev.-CERN/3307/Rev. and CERN/FC/6122-CERN/3308 and of the presentation by the Chief Executive Officer of the Pension Fund, Mr Eyton-Jones;
- the presentation of documents CERN/FC/6121-CERN/3307 and CERN/FC/6122-CERN/3308 by Mr Kurzyca on behalf of the External Auditors;
- the report by Mr Malmberg, in his capacity as Chair of the Finance Committee and of the Audit Committee, on the outcome of those committees' examination of the Pension Fund's 2016 Annual Report and Financial Statements at their respective meetings in June 2017;

and, on the recommendation of the Finance Committee, unanimously decided:

- to approve the Financial Statements of the CERN Pension Fund for 2016 set out in document CERN/FC/6120-CERN/3306; and
- to grant discharge to the Pension Fund Governing Board.

8. DRAFT TIMETABLE FOR COUNCIL SESSIONS AND COMMITTEE MEETINGS IN 2018

(Item 8 of the Agenda) ([CERN/3314/Draft](#))

The Council took note of document CERN/3314/Draft and, in the absence of any comment by the Chairs of the Scientific Policy Committee and the Finance Committee, unanimously decided to approve the draft timetable for Council Sessions and Committee meetings in 2018 set out in the document.

The meeting was adjourned at 10.00 a.m. and resumed at 10.45 a.m.

9. LHC MATTERS

(Item 10 of the Agenda)

a) Status Report on the Accelerators

(Oral)

Dr BORDRY said that he had just been informed that the ICARUS detector had arrived at the harbour of Basel, completing the first leg of its journey to Fermilab, and that he wished to thank the EN department teams involved for their contributions to that achievement. He then presented⁷ the status of the LHC injectors and reviewed the work accomplished during the extended year-end technical stop (EYETS), which had included:

- an ambitious de-cabling campaign and machine development studies at the PS Booster;
- the start-up of ISOLDE at low energy, which had resulted in first physics at the end of April, and the installation of the third HIE-ISOLDE cryomodule;
- improved availability of fixed-target beams at the PS (East Area, nTOF and AD) and good operation of the beams to the SPS following the resolution of the earlier problems involving the beam dump.

Following the EYETS, the powering tests and other preparatory activities had been successfully completed at the LHC, allowing production for physics to begin a few days before the present meeting. The goal for 2017 was to achieve an integrated luminosity of 45 fb^{-1} , with machine availability close to 50%. On behalf of the Management, he thanked all the teams involved in the EYETS activities and in the subsequent hardware and beam commissioning for the outstanding work they had accomplished. Finally, he announced that the fourth workshop on Energy for Sustainable Science at Research Infrastructures, organised by CERN, ERF, ESS

⁷ Presentation available at <https://indico.cern.ch/event/640608/>

and ELI-NP in cooperation with EuCARD-2, would be held in Magurele, Romania, from 23 to 24 November 2017.

The Council took note of the presentation by the CERN Director for Accelerators and Technology, Dr Bordry, on the resumption of physics operation at the LHC after the extended year-end technical stop and the goals for the new production year at 13 TeV.

b) Status Report on the LHC Experiments and Computing
(Oral)

Professor ELSEN presented⁸ a selection of the physics results from the 2016 data harvest, which had benefitted from the increased collision energy and data, as well as details of the preparations for the Phase II detector upgrades and the status of computing resources in a context of sustained growth in requirements. In that connection, he drew attention to concerns regarding the supply of the tapes required for data storage and to the decision to delay the construction of the new Prévessin Computing Centre until 2021.

Professor ELLIS reported on the Scientific Policy Committee's discussion of LHC Matters⁹, including the status of the accelerator complex, the excellent results from Run 2 so far, the progress of the Phase I upgrades and the preparations for the Phase II upgrades. In the framework of its examination of the 2016 Annual Progress Report, the Committee had voiced appreciation for the progress achieved during the year. Regarding the 2018-2022 Medium-Term Plan and 2018 draft Budget, it had reiterated its support for the initiative to recruit an additional 80 staff on limited-duration contracts and had welcomed the Management's efforts to preserve the central budget for fellows. It had also found the case for the planned additional expenditure, offset by extra cost savings, to be convincing.

The Council took note of the oral status report on the LHC experiments and computing by the Director for Research and Scientific Computing, Professor Elsen and of the report by Professor Ellis on the Scientific Policy Committee's examination of LHC matters and the Medium-Term Plan for 2018-2022 at its June 2017 meeting.

⁸ Presentation available at <https://indico.cern.ch/event/640608/>

⁹ Full report by the Chair of the Scientific Policy Committee available at <https://indico.cern.ch/event/640608/> (Item 4 of the agenda)

10. REPORT ON PARTICLE PHYSICS IN SOUTH KOREA

(Item 10 of the Agenda)

Professor CHOI, Head of the Physics Department at the University of Korea, presented the status and future prospects of particle physics in South Korea¹⁰, outlining the history of the discipline in his country, which had begun in the 1980s with the participation of Korean scientists in international collaborations in Europe, the United States and Japan. The Korea-CERN programme, which had been launched in 2007, had led to contributions by Korean institutes to experiments conducted at CERN, notably CMS and ALICE, and to the participation of Korean scientists in related computing and other activities. The future outlook for the programme included strengthening participation in both the LHC programme and in non-LHC experiments. Korean scientists and institutes had also participated in the BELLE experiment at KEK in Japan since its inception, where they had contributed to the construction of detectors and to several of the experiment's publications. Turning to the Korean domestic particle physics programmes, he described the Reactor Experiment for Neutrino Oscillation (RENO), which involved nine institutes and universities and would ultimately be succeeded by RENO-II, and the long-baseline neutrino experiment at the Korea Neutrino Observatory using a beam from J-PARC in Japan. The various Korean research centres involved in particle physics included the Institute for Basic Science (IBS) and the Centre for Underground Physics (CUP). In conclusion, high-energy physics in Korea had grown significantly over the last 30 years, with international collaborations sowing the seeds for the domestic programmes. However, long-term planning was still complicated by the lack of the necessary permanent structures and dedicated budgets. Finally, he announced that the 39th International Conference on High Energy Physics (ICHEP) would be held in Seoul in July 2018.

In response to Professor RABINOVICI, who enquired about the role played by the theory community in Korea's high energy physics activities, Professor CHOI observed that the Korean Institute for Advanced Sciences (KIAS) boasted an active theory team and that several Korean scientists had worked in CERN's theory group, funded by the Korean government, before participating in the LHC programme in Korea.

The Council took note of the presentation on particle physics in South Korea by the Head of the Physics Department at the University of Korea, Professor Choi.

11. LAUNCH OF THE CERN ALUMNI PROGRAMME

(Item 11 of the agenda) (Oral)

¹⁰ Presentation available at <https://indico.cern.ch/event/640608/>

Ms WARAKAULLE, Director for International Relations, presented¹¹ the new CERN Alumni programme, explaining that the aim was to create a global network of those who had worked at CERN during their professional careers, thereby strengthening support for CERN's mission in their home countries and helping young professionals to progress in their future careers. Thanks to the hard work and dedication of the CERN Office of Alumni Relations, the programme had been officially launched on 8 June with a dedicated bilingual web-based platform, the "High-Energy Network". In setting up the platform, particular attention had been paid to the protection of data privacy. Noting that the platform contained statistics of interest to the delegations and offered the opportunity to post job openings and advertise events, she invited them to sign up to become members of the network.

Professor RABINOVICI said that he wished to voice appreciation for the very positive initiative presented.

In reply to Mr FROISSARD, who asked whether it was planned to create a link between the CERN Alumni platform and the European Commission's EURAXESS job portal, Ms WARAKAULLE said that the Alumni Office would be very happy to work with the Commission to implement that excellent suggestion.

The Council took note of the presentation by the Director for International Relations, Ms Warakaulle, on the launch of the CERN Alumni programme and the web-based "High-Energy Network" platform on 8 June 2017 and expressed appreciation for the initiative.

12. IMPACT OF CERN ON YOUNG PEOPLE'S CAREERS OUTSIDE HIGH ENERGY PHYSICS

(Item 12 of the agenda) (Oral)

Professor GIACOMELLI, Chair of the Students Career Study Group, presented¹² the preliminary results of an ongoing questionnaire aimed at all current and former members of the LHC and other experiments having done their PhD at CERN. The questionnaire, whose purpose was to study the impact of young people's experience at CERN on their future career outside high energy physics, had been launched in May 2017 and was due to be completed by the autumn. It followed on from a first questionnaire targeted towards a smaller sample of former physicists and engineers having left the field of high-energy physics, the results of which had been presented to the Council at its Restricted Session in December 2016. The preliminary data obtained, which had yet to be analysed, showed that the impact was generally positive but that networks with the potential to help former CERN students to find a job outside high energy

¹¹ Presentation available at <https://indico.cern.ch/event/640608/>

¹² Presentation available at <https://indico.cern.ch/event/640608/>

physics needed to be improved. The CERN Alumni project should provide a substantial boost in that respect.

In reply to M. MICHELSEN, who said that he hoped that the group's final report would include some of the key figures, especially on gender, in order to provide a basis for monitoring any systematic trends in the future, Professor GIACOMELLI confirmed that the final report would contain such information and that it would be made publicly available.

The Council took note of the report by Professor Giacomelli.

13. CONFIRMATION OF ACCESS STATUS OF DOCUMENTS

(Item 12 of the agenda) (Oral)

The Council unanimously decided to confirm the access status of the documents as shown on the agenda.

14. OTHER BUSINESS

(Item 14 of the Agenda)

- Departure of two Council Delegates

On behalf of the Council, the PRESIDENT thanked Ms S. Péron of the French delegation and Dr B. Vierkorn-Rudolph of the German delegation for the active role they had played in the Council's discussions.

- Message of Condolence

The PRESIDENT requested the Norwegian delegation to convey the Council's condolences to the family, friends and colleagues of Dr B. Jacobsen, Norwegian delegate to the Finance Committee and the Council and former Finance Committee Chair.

The meeting rose at 12.40 p.m.

* * *