

Draft Minutes of the C&CC Meeting — 3-4 May 2018

To be confirmed by the next C&CC meeting

Day 1 – 3 May 2018

Function Hall 1, level 3, Nanyang Executive Centre

Nanyang Technological University, Singapore

11:00 – 18:30

In Attendance:

1	Michel Spiro	President-Designate
2	Bruce McKellar	Past President
3	Rudzani Nematudi	Associate Secretary General
4	Kwek Leong Chuan	Deputy Secretary General
5	Wang Enge	Vice-President at Large (Finance)
6	Monica Pepe-Altarelli	Vice-President at Large (Centenary)
7	Silvina Ponce Dawson	Vice-President at Large (Gender Champion)
8	Nithaya Chetty	Vice-President at Large (New Members)
9	Peter Mohr	Chair (C2)
10	Maxi San Miguel	Vice-Chair(C3)
11	Sunil Gupta	Chair (C4)
12	William P Halperin	Chair (C5)
13	Masaki Sasai	Secretary (C6)
14	Rolf Haug	Chair & Vice-President from commission chairs (C8)
15	Burkard Hillebrands	Chair (C9)
16	Laura H Greene	Chair & Vice-President from commission chairs (C10) and observer representing the American Physical Society (APS)
17	Heidi Schellman	Chair (C11)
18	Claes Fahlander	Chair & Vice-President from commission chairs (C12)
19	Sekazi K. Mtingwa	Chair (C13)
20	Roberto Nardi	Chair & Vice-President from commission chairs (C14)
21	Roberto Rivarola	Chair (C15)
22	Minh Quang Tran	Chair (C16) and observer representing the European Physical Society (EPS)
23	Tsuneyuki (John) Ozaki	Chair (C17)
24	Bruno Nachtergaele	Chair (C18)
25	Gerard Gilmore	Chair (C19)
26	David P Landau	Chair (C20)
27	Roberta Ramponi	President (AC1)
28	Beverly Berger	Secretary (AC2)
29	Marion Burgess	Past-President (AC3)
30	Timo Eckstein	Vice-President (IAPS) as an observer
31	Rajdeep Singh Rawat	Observer representing AAPPS
32	Sun Han	IUPAP
33	Maitri Bobba	IUPAP

Absent with Apologies:

1	Kennedy Reed	President
2	Phua Kok Khoo	Secretary General
3	Vitaly Kveder	Vice-President at Large (Outreach)
4	Rahul Pandit	Chair & Vice-President from Commission Chairs (C3)
5	Ramin Golestanian	Chair (C6)
6	Nusslin Fridtjof	President (AC4)

The C&CC opened with formal introductions by the hosts Kwek, Leong Chuan (Deputy Secretary General) on behalf of the IUPAP Singapore and Michael Khor (Director, Research Support Office & Bibliometrics Analysis, Presidents Office, NTU) on behalf of NTU. President Designate, Michel Spiro welcomed all and gave a brief introduction to IUPAP to the new team. Addresses by Tit Meng Lim, Vice-President of the National Academy of Science, Singapore, Rainer Dumke, Deputy Head of the Division of Physics & Applied Physics, NTU and Rajdeep Singh Rawat, President of the Institute of Physics, Singapore gave an overview of science research in Singapore and in NTU.

1. Welcome by President-Designate

Michel thanked Kwek for hosting the C&CC meeting at NTU, Singapore. He then introduced himself and welcomed all to the C&CC Meeting. He informed all of Kennedy's absence due to his ill health and wished him a speedy recovery. Being the President-Designate Michel will be chairing the meeting in the absence of the President, as per the statutes.

2. Approval and Adoption of the Agenda

The Agenda was approved by the present C&CC members.

3. Introduction of Members

Each participant introduced themselves.

4. Introduction to IUPAP

Bruce introduced IUPAP which was founded in 1922 highlighting how members joined over the years to the current 55 members. IUPAP now has 18 sub-disciplinary commissions, 13 working groups and 4 affiliated organizations, with links to other international science organizations. He highlighted that the current budget is approximately EUR 600,000 per year of which about 40% goes to sponsoring international conferences. The IUPAP sponsors most of the leading international conferences in physics. 14 special committees and working groups exist for important international issues. These are established for an initial period of 3 to 6 years, then evaluated, and either continued or disbanded.

After detailing the mission, governance and statutes of IUPAP, he summarised that international collaboration, consultation and competition has been an integral part of physics for over a thousand years. Almost 100 years ago, when the IUPAP was set up, it focussed on facilitating international conferences. It has expanded its actions, but is now facing many challenges, including:

- Freedom of movement of scientists
- Freedom from harassment in conferences and the workplace
- Distortion of publication practices because of the use of "objective metrics" to judge physicists
- A proliferation of fake conferences and fake journals
- Finding ways to involve mid-career researchers in IUPAP

He emphasised that the current task of IUPAP is to address these and other concerns of the global physics community

5. Secretary General's Report

K K Phua was unable to be at the meeting and hence the Deputy Secretary General, Kwek Leong Chuan presented the report.

5.1 Finance

A designated Vice-President at Large, Enge Wang, will be presenting the Financial Accounts.

5.2 Administration

The IUPAP office in Singapore is maintained smoothly, thanks to the efforts by Maitri, Erin Ong Wanlin for the design of the Newsletters and other publication materials and Toh Miang Ng for his IT Support and maintaining the IUPAP website. Aside from Maitri, we register our thanks to Sun Han, who has also contributed immensely to the work for the secretariat of IUPAP.

5.3 Membership of C1

The Council voted in favor of the inclusion of two Vice-Presidents at Large to the Commission on Policy and Finance (C1): Enge Wang (Finance) and Monica Pepe-Altarelli (Centenary)

5.4 IUPAP Bulletin

The latest IUPAP Bulletin was uploaded on March 22, 2018.

5.5 Membership

Although significant progress has been made to encourage Vietnam (via Prof. Trinh Tran Van), Thailand (Prof. Sukit Limpijumnong), Malaysia (Prof. Kurunathan), Brunei (Dr Joyce Teo Siew Yean, the Assistant Vice Chancellor and Vice President (Global Affairs) of University Brunei Darussalam) and Indonesia (Dr Sparisoma Viridi) to join IUPAP as members, there has not been a lot of progress.

Currently, aside from Singapore, there is only one other member of ASEAN namely the Philippines that is a member. Recently, the ASEAN nations have established the ASEAN Federation of Physics Societies (AFPS) and it is hoped that through AFPS, we could try and see if it is possible to establish some form of memberships for other non-member ASEAN countries. Pakistan has re-established membership of IUPAP.

5.6 Young Scientist Prizes 2018

The IUPAP Young Scientist Prizes have been awarded to the following people:

1. Shinichiro Seki (C9: Magnetism)
2. Samuel E Gralla (AC2: General Relativity and Gravitation)
3. Abdul Nashirudeen Mumuni (AC4: Medical Physics)
4. Luqiao Liu (C9: Magnetism)*

* Not included in previous report

5.7 Obituary

Commission C9 on Magnetism has issued a statement regarding the passing of Peter Gruenberg who has made immense contribution to the discovery of giant magnetoresistance effect.

6. Resolutions from the General Assembly

The 29th GA Resolutions were discussed. In particular:

Resolution 6.3 Diversity and Inclusion in Physics

It was agreed that work needed to be done to specify how the resolution

“The 29th General Assembly RESOLVED to encourage IUPAP-sponsored conferences to have a session for all participants on diversity and inclusion in Physics, together with IUPAP values.”

could be implemented.

Resolution 7: Neutrino Physics Panel

The panel is being put together and should be in place by the Neutrino conference. The list of members of the Neutrino panel should be approved at the next C&CC meeting (October 2018), or before by email. The chairs of the commissions are working together to nominate members keeping in mind the regional balance.

Resolution 18: Physics in Africa

The letter was sent to the Chair of the African Union Commission, appealing for support for Basic Sciences in Africa, continuation of the AU effort to bring at least 1% of GDP to the budget of Science and Technology in each African state, and empowerment of Women in Science in Africa. No acknowledgement and response was received and hence no update on the website was made.

7. Previous C&CC Meeting

7.1 The minutes of the previous C&CC online meeting held before the GA in October 2017 were reviewed and passed without any amendments. They will be published on the IUPAP website as usual.

7.2 The decisions made electronically by the Council after the GA were endorsed unanimously.

- 10 April 2018 - Proposal for the enlargement of C1 to include Vice President elected at Large with responsibility for Finance and the Vice President elected at Large with responsibility for the Centenary.
- 5 March 2018 - Nominations made to ICSU -World Data System Scientific Committee
 - Dr. Gang Chen from Institute of High Energy Physics (IHEP), Chinese Academy of Sciences
 - Dr. Andreas Haungs from KIT, Karlsruhe, Germany
- 19 February 2018 - Endorsement of C13: XIV Hadron Physics Conference
- 3 February 2018 - C13 2018 IUPAP Conference Application for the Entrepreneurship Workshop for Scientists and Engineers (EWSE). Request for the previously approved funding be spent on a slightly different program-to use this funding to finance the entrepreneurship training, run in Tanzania with secondary schools, rather than university students, which is what the original application requested. Following a consultative process within council, and in close interaction with Commission 13, we have resolved to grant permission to the organizers of the Entrepreneurship Workshop for Scientists and Engineers (EWSE) to host the workshop under a slightly reconfigured targeted audience. We understand, as requested, that the activities of the workshop will now focus on secondary school students as opposed to university graduate students. We furthermore understand that all the original objectives of the workshop remain as they were stated on the application form upon which the decision to grant approval was based

8. Role and Operation of Commissions

- a. Bruce gave a brief introduction on the nominations and appointments to the commissions and associate memberships. Minh Quang Tran (current chair and past vice-chair of C16, and associate member of WG14) and Peter Mohr (current chair and past chair of C2) shared their valuable experiences, challenges and workings for the commissions.
- b. Associate members start their term, 1 year after the new Commissions takes office (ie, on 1 January 2019) and will be appointed at the second C&CC meeting this year (October 2018). They will finish their term on 31 December 2021.

9. Commission Matters

- a. Bruce outlined the procedures involved in establishing the next commissions as per the by-laws. He elaborated on the role of the current commissions in recommending members to the next team.
- b. He suggested that 'Succession planning' should start now. Though some Commissions have a tradition that the Vice-Chair or Secretary becomes the next Chair, others don't, hence since the next Chair could be anyone, it is best if an existing member is found early. Since the bylaws have restrictions on the term limits it is advisable that the next Chair be identified by **October 2019**, and reported to the Council at that meeting. Council may ask for an alternative after considering geographic and gender distribution of the group of incoming Commission Chairs. Since this is new for this cycle, he proposed that the C&CC should formalise the process of nominations, statements about desirable distributions and the whole process in general. He proposed that a procedure be drawn up for this change for the next chair nomination. In the discussion, it was suggested that this process should include nominations from members for all Commission members, not just Chairs, and that the slate to be proposed for Commissions to the 2020 General Assembly should be agreed at the 2019 meeting of the Council and Commission Chairs. It was pointed out that this did not conflict with the statutes and it was agreed that this significant change in the operation of IUPAP be proposed to the 2018 C&CC meeting
- c. A doodle poll was set-up to see availability of members to attend the next C&CC meeting which was then set to **31st October to 2nd November 2018**. Only one bid from Vilnius, Lithuania has been received to date. Call for more proposals was made to the council.
- d. 2019 C&CC bids should be sent to the office by 31 August 2018, to be decided at the October 2018 C&CC meeting. A bid has been received from the UK Institute of Physics, and other bids will be solicited.

10. Sponsorship and Endorsement of Conferences

Rudzani introduced the procedures for sponsorship of conferences, the online application submission and the deliberation after. He also outlined the various categories of conferences and how they are decided for support. He emphasised that the commission chairs should encourage conference organisers to file the report for the conference after the event to facilitate future endorsements and sponsorships. It was also noted that Silvinia (VPL for Gender Champion) should also be copied on all the reports received hereon.

Bruce emphasised that the category of Endorsed Conferences was introduced so that Commission conferences, often determined several years in advance, could advertise themselves as IUPAP conferences and carry the IUPAP logo on their website. This served to advertise IUPAP and also to help physicists distinguish between genuine IUPAP conferences and *fake conferences* carrying the same name. He urged Chairs to apply for endorsement of their Commission Conferences when their location is decided, and noted that the Conference would have to apply for sponsorship between 1 January and 1 June of the year before the conference was held.

11. Financial Matters

Bruce gave an introduction to the financial affairs of the IUPAP. It is necessary that bank accounts be operated by an incorporated body. A Singapore Company, the International Union of Pure and Applied Physics Singapore Ltd (IUPAP-SG) was set up for this purpose. The Company is required to file annual financial statements with the Accounting and Corporate Regulatory Authority (ACRA) and to file income tax returns with the Inland Revenue Authority of Singapore (IRAS). So the financial report of IUPAP-SG is the official financial statement of IUPAP.

This financial statement is on an accrual basis, which can be misleading regarding the extent to which the company has been effective in collecting its dues and therefore has money to pay its bills. For this reason, IUPAP has a tradition of also reporting in terms of its budgeted income and the related cash based expenditure. IUPAP also works on a three-year program, from one General Assembly to the next. There is no carry-forward from one term to another.

There are thus three financial statements before you:

1. *IUPAP-SG Financial Statements for year ended 31 December 2017*

- From the Income and Expenditure statement, there is a billed income of 566,574 EUR, but the balance sheet shows that 129,433 EUR was still owed to us on 31 December 2017, and had not been written off. We are not a charitable company, but Section 11(1) of the income tax act allows us to pay no tax on the dues we receive from our members.

- The bank balance at the end of this period was 1,437,399 EUR, an increase of 105,562 EUR from the 31 December 2016 balance of 1,331,837 EUR, a healthy result for the year.

- We have already received 28,481.00 EUR for late 2017 dues and we expect to receive at least 29,800 EUR more late dues.

- 25,000 USD had been locked up by the donor (IBM), and only the income from it could be used for the prizes for young authors for semiconductor physics. After obtaining permission from the donor, council agreed to put 25,000 EUR at the disposal of C8, the Commission on Semiconductors. That is not part of the reserves, and so the reserves now stand at 1,470,680.

2. *IUPAP 2015-2017 budget-and actuals*

- The budget for the C&CC meeting was added to the General Assembly budget, and we included the costs of the General Report in with the General Assembly as well.

- Over the three year period, we received about 124,000 EUR more than we had budgeted for. The budgeted income is not what we bill but what we expect to collect. The increase was largely due to the efforts of our Chef d'Administration, Maitri Bobba, in chasing down the payments, and partly due to the increase in the shares subscribed to by some members

- We underspent our budgeted expenses by about 179,000 EUR. The net surplus of about 300,000 EUR is to be retained in our reserves. The underspending on the C&CC meeting (37K EUR) was largely due to the generous support provided by the Brazilian hosts

- There was an underspending of a total of 96,000 EUR by Commissions and Working Groups.

Careful control of expenses, and persistent work in collecting income, by Maitri, together with unexpected underspending and generous support for our General Assembly, have led to the favourable financial outcome for 2015-2017.

3. *IUPAP 2018-2020 budget-and actuals to date*

The budget for the triennium, has been revised based on recent history. It shows

- Increased conference support

- Unchanged allocations for Commissions

- Increased budget for working groups to allow for the two extra working groups

- Allowance of 5000 EUR per year for new initiatives. The recommendation is to spend the new initiative allowance for this year and next in support of the International Year of the Periodic Table

- A transfer from reserves of 25 K EUR is to fund C8 young authors prizes as agreed by the donor (IBM). Both that and the ICSU grant for LAAAMP is money in and money out, and does not affect the rest of our activities.
- The budgeted outcome leaves a very small surplus of about 20,000 EUR at the end of 2020

12. Membership issues

The Vice President at Large (New members), Nithaya Chetty reported that

- Driving new membership should not be seen in isolation, but as an intrinsic part of consolidating the current membership and ensuring that all current members benefit from membership and understand and appreciate the importance of being a part of the Union.
- Each membership is customised to the region, science budget and leadership, and ability for long-term commitment.
- 4 categories of members:
 - o Safe (those who pay on a timely basis within the year or early part of the following year)
 - o Almost defaulting (those who have not paid in the last 3 years)
 - o Recently defaulted (those who have not paid in last 6 years and have been moved to observer status)
 - o Prospective new members
- Be able to see the advantages of membership and are willing to prioritize its funds; need to engage with the right people, each country's point of entry will be different
- In satisfying the needs of current members, we will have a strong basis for reaching out to potential new members.
- Attention can be given to Africa and other ASEAN countries and the developing world

Follow-up on already approached countries (Vietnam, Brunei, Philippines and Indonesia)

- A strategic plan for new membership will be drawn up

13. Communications

In the absence of the Vice President at Large (Outreach), the Deputy Secretary General reported that

a. Internet

- Analytics on the webpage should be communicated to all to suggest improvements to the page to make it more user-friendly and informative.
- It was proposed that a proposal be drawn up for the adjudication of candidates for IUPAP Young Scientist Prizes who are working in interdisciplinary fields.

b. Newsletter

The quarterly newsletter needs constant inputs from all commissions so that it can be more representative of the work done by the Union.

14. Commission and Affiliated Commission issues

All commission and affiliated commissions submitted their reports, which were taken as read. It was agreed that the Presidents and other members of the meeting would ask questions of the Commission Chairs concerning their new reports to the October 2018 meeting.

15. Working Group Matters

a. Reports

WG1, WG5, WG7, WG9, WG11 and WG15 submitted their reports.

b. WG on Industry

It was proposed that a bylaw be passed to state that at least 1 member of each commission should be from Industry so that the applied part of the research can be put through. It was preferred that the member be outside of academia is possible.

16. ICSU Matters

a. ICSU Grants

- LAAAMP

Since the last update in October, the LAAAMP project has scheduled to go ahead with the second printing of its brochure in English, French and Spanish in summer of 2018. For the January - December 2018 Awardees, they are expecting 19 FAST Teams, 38 Awardees:

- Africa - 3 New FAST Teams (2 Continuing Teams)
- Caribbean - 1 New FAST Team (1 Continuing Team)
- Mexico - 3 New FAST Teams (1 Continuing Team)
- Middle East - 3 New FAST Teams (2 Continuing Teams)
- SE Asia - 3 New FAST Teams (To be announced)

- Gender Gap:

The project, led by the International Mathematical Union (IMU) and IUPAC with IUPAP as a partner, started in 2017. The total number of partners is 11, the 9 others are:

- i. IAU (Astronomy),
- ii. ICIAM (Industrial and Applied Mathematics),
- iii. IUBS (Biological Sciences),
- iv. UNESCO (United Nations Educational, Scientific and Cultural Organization),
- v. IUHPST (History and Philosophy of Science and Technology),
- vi. ACM (Computer Science),
- vii. GenderInSite (Gender in Science, Innovation, Technology and Engineering) and
- viii. OWSD (Organization of Women for Science for the Developing World).

The project has three tasks:

1. A Joint Global Survey will be conducted which will provide comparisons between scientific disciplines, answering some persistent questions about why one discipline is more attractive than another to women.
2. A bibliometric survey extended across disciplines, with an ongoing sustainable methodology be designed to allow longitudinal studies and updates into the future.
3. To collect information and evidence to advise on (successful) initiatives that could improve the workplace environment and help reduce the gender gap in mathematics and natural and computer science, taking regional differences into account. It also seeks to provide material aimed at attracting girls into science-with particular emphasis on reaching parents.

The Gender Gap partners met for the first time in June 2017 to structure the work to be done. Regional workshops took place by the end of 2017 in Taiwan, South Africa and Colombia. The workshops discussed the three tasks from a regional perspective, with particular effort put into the critical analysis of the questionnaire of the survey. The survey is ready in English and almost ready in 6 other languages (Spanish, French, Russian, Chinese, Japanese, Arabic). It was launched on the 1st of May, 2018. They expect to collect over 45,000 responses. The link (<https://icsugendergapinscience.org/2018-global-survey-of-mathematical-computing-and-natural-scientists/you>) will be sent to all IUPAP members too, for their input.

b. ISC status

- Lobby and vote for keeping regional offices in ISC

17. Relations with other Unions

a. International Association of Physics Student (IAPS)

Timo Eckstein, Vice-President of IAPS gave a comprehensive overview of IAPS: Its benefits, the Members Network and types, international and local events. He emphasised his interest in future collaboration with IUPAP, especially in outreach events such as our School Day concept as this is not barely limited to physics students, but might be conducted by physicists in general. He also suggested that IUPAP members would fit well as mother societies of IAPS National Committees and in turn, IAPS will help to contribute to the collaboration with its experience and concepts on how to run a national student chapter efficiently and smoothly.

b. IUPAC and the International Year of the Periodic Table (IYPT)

1869, is considered as the year of discovery of the Periodic System by Dmitry Mendeleev. 2019 will be the 150th anniversary of the Periodic Table of Chemical Elements as proclaimed by UNESCO. It was agreed that the agreement between IUPAP and IUPAC set out in the document 'IUPAC and IUPAP procedures for validating claims for the discovery of new elements and naming of those elements' be appended to the minutes of the C&CC meeting of October 2017, and published on the IUPAP website when those minutes are published. It was further agreed that this agreement be publicised during the IYPT.

c. Other relations

- Clarify the mechanism by which IUPAP representatives on BIPM committees are appointed, and if necessary strengthen the IUPAP involvement in the process.
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18. Gender Matters

Silvinia highlighted that there was some improvement over the years in the fraction of women on committees and on the list of invited speakers of conferences that have been sponsored and/or endorsed by IUPAP. In comparison between previous conferences and those held in 2017-2018 are:

- Female attendees – Increased by 1%
- Female invited speakers – Decreased by 2%
- Female members on International Advisory committees – Increased by 9%

It was proposed that in future conference reports the name of the officers to advise on harassment issues Office, should be requested. The Waterloo charter on women in physics, will be discussed at the October C&CC meeting and the preparation for it to be the subject of a resolution at the 30th GA will be articulated. Ask to know in the conference report the name of the officers to advise on harassment issues

There was a unanimous decision taken to add on the conference website the statement from §9.2 of the 2017 C&CC minutes regarding the 20% target, and the 10% absolute minimum for participation of women in conference committees, and implement the limit for 2019 conferences.

It was noted that the IUPAP Gender Champion is an *ex-officio* member of WG5.

19. Bids to host GA 2020

It was suggested to try to get bids from Africa and the Middle East and it was suggested not to have it in Europe since the GA 2023 is preferred to be held in Paris as it is the 100th anniversary of the first GA in Paris in 1923. Bids for GA should be received by the office by 30th September 2018, and to be decided on at the October 2018 C&CC meeting. The requirements for hosting the GA will be sent out from the office by 30th June 2018.

20. IUPAP Centenary

Monica briefly described the status for the Centenary planning. 12 members were identified to participate in the working group on the IUPAP Centenary (WG17):

1. Kennedy Reed, President, IUPAP
2. Michel Spiro, President-Designate
3. MPA, CERN, Vice-President elected at large with responsibility for the Centenary
4. Beverly Berger, Livermore, AC2 Secretary
5. Igle Gledhill, University of the Witwatersrand, Johannesburg, former WG5 chair
6. Pratibha Jolly, Principal at Miranda House, University of Delhi, former C14 chair
7. Robert Kirby Harris, former Secretary-General
8. Alinka Lépine-Szily, University of Sao Paulo, former C12 chair and gender champion
9. Patricia McBride, Fermilab, former C11 chair
10. Mourad Telmini, Faculty of Sciences of Tunis, former C13 member
11. Minh Quang Tran, EPFL, Switzerland, C16 chair
12. Sukekatsu Ushioda, former IUPAP President

The preparatory work can be divided into various subgroups, each with a responsible contact. It could be organised around the following initiatives:

1. The Centennial Symposium
 1. Reflect on format, date & venue (2022, Brussels, Paris, CERN...), topics, speakers, invitees, associated outreach events (e.g., incorporating a Physics Challenge for Students). Other possible themes (linking with IYBSD 2022):
 - i. Physics as a building block of basic sciences
 - ii. Physics for development
 - iii. Education (active learning of physics)
 2. Draw lessons from this year's (2018) EPS 50th anniversary celebrations
 3. How do we attract excellent speakers with little means? Open the event to the public with small registration fees?
2. Communication on the Centenary – to increase visibility:
 1. Produce logo, leaflets, banners, focus articles, editorials in newsletters and IUPAP website, social media, revamp poster...
 2. Publicise IUPAP activities preparing dedicated leaflets to be distributed to participants of IUPAP-sponsored conferences–synergy with material being prepared for IYBSD 2022
 3. Produce a glossy brochure, reviewing the history of IUPAP and looking to the future.
 4. A reflection beyond the 100th anniversary of IUPAP is essential regardless of the celebrations: have we accomplished our mission? How should our mission evolve?
3. Anniversary book reviewing the history of IUPAP:
 1. It needs a professional historian: there is a contact with Roberto Lalli, specialist of History of Modern Physics and History of International Relations, who did a history of

AC2(General relativity & gravitation), and is interested in doing a scholarly history of IUPAP

2. Profit from the occasion to make order in the IUPAP archives and digitize them (R.Lalli has applied for an ERC grant and should have an answer soon).
3. Invite stories through a website as done for 2014 IUPAP Int. Conf. on Women in Physics. Intersperse selected personal stories with more serious pieces of history by invited authors
4. Other satellite events, i.e. celebrations taking place elsewhere in the world. Use IUPAP conferences as vehicles to celebrate the Centenary and the IYBSD, e.g. having dedicated plenary talks.
5. Other points to be discussed:
 1. Integrate the IUPAP Centenary with the IYBSD 2022, through a symposium or shared publicity material
 2. The 2023 General Assembly, 100 year after the first General Assembly(1923 –Paris), may also be considered a part of the Centenary and, if yes, how
 3. Commission contribution may be from showcasing the latest research findings or how the commission has grown and evolved over the 100 years.
 4. Budget for the organisation of the Symposium and the book will be significant. Should we try to find sponsors?

21. International Year for Basic Sciences and Development (IYBSD)

2022 is being considered a good time to celebrate Basic Sciences for Development, as it fits well with the UNESCO and the UN agenda, IUPAP centenary, 100 years Niels Bohr Nobel award, 200 years of Brazilian independence. The proposal of 2022 as the IYBSD was well received and got the oral and formal support of the representatives of ICSU, ISSC, IUPAC, ICTP, EPS and CERN. The proposal was presented to the French and Swiss ambassadors to UNESCO and received a firm support. It was also discussed with the director at UNESCO, of Science Policy and Capacity Building, Executive Secretary of IBSP, was very supportive of the initiative.

The timeline is suggested as follows:

- 2017 - Formal recommendation by IBSP for 2022 – International Year for Basic Sciences for development
- 2018 - General Preparation (Governance, communications); Approval by the UNESCO Executive Committee (November)
- 2019 - Formal approval by the General Conference of UNESCO (November)
- 2020 - Approval by the UN General Assembly (December)
- 2021 - Detailed Preparation of Regional and International events
- 2022 - International Year of Basic Sciences for Development

More immediate steps are:

- First meeting of the core steering committee with representatives of the supporting unions and organisations, in July, at the time of the first ISC General Assembly - suggestion of taking IAU on board for the Steering Committee of IYBSD is being considered.
- Preparation of a draft brochure for this meeting with the help of the steering committee, which will be designed by the IUPAP office

22. Other business

- It was agreed that a proposal for management of candidates for IUPAP Young Scientist Prizes who are working in interdisciplinary fields should be prepared.

23. Review of the Meeting

The meeting agreed to make the following recommendations to the Executive Council:

1. To start the process of rewriting the statutes: Officers to produce the first draft, to take to C1 and C&CC October 2018, then iterate to C&CC 2019, to members, comments back and revised version to members 4 months before.
2. To review and update the information on the website about IUPAP, and bring proposed changes to C1 and C&CC October 2018.
3. To negotiate with NTU for continuing to host the IUPAP Office to end 2023, aiming to conclude negotiations by mid 2019.
4. To discuss between now and C&CC October 2018 on implementation of the GA resolution **The 29th General Assembly RESOLVED to encourage IUPAP-sponsored conferences to have a session for all participants on diversity and inclusion in Physics, together with IUPAP values.**
5. Noting that the rules about conferences are adequate, to require that they be applied more strictly, particularly in respect of timely Conference Reports, and the target percentage of women on Conference Committees. (See also recommendation 20)
6. To remind commissions that they, through their Chair, can approach the Liaison Committees of IUPAP members through their contact details on the IUPAP website.
7. To agree that the agreement between IUPAP and IUPAC set out in the document 'IUPAC and IUPAP procedures for validating claims for the discovery of new elements and naming of those elements' be appended to the minutes of the C&CC meeting of October 2017, and published on the IUPAP website when those minutes are published. It was further agreed that this agreement be publicised during the IYPT.
8. Noting that Associate Members of Commissions, who have not become members of that Commission, are Associate Members until the end of 2018, to ask Commission to provide their recommendations for Associate Members in the period 2019-2021 with the papers for discussion at the October 2018 C&CC meeting.
9. To ask the Officers and C1 to provide to the October 2018 C&CC meeting a detailed procedure for calling for nominations for Commissions early in 2019, and finalising the slates the Council will recommend to the 2020 General Assembly at or soon after the 2019 meeting of the Council.
10. To invite members to bid to host the C&CC meeting of 31 October and 1 and 2 November 2018, asking that the bids should be received by the Office before 31 May 2018. The Office will provide to members a list of those costs we expect to be met by the host. The Office will analyse the financial implications for IUPAP of each offer and the Council will reach a decision by email before 15 June 2018
11. Similarly, to invite members to bid to host the C&CC meeting of October and/or November 2019, bids to be received by 31 August 2018, and to be decided at the October 2018 C&CC meeting.
12. Similarly, to invite members to bid to host the 30th GA of IUPAP in October/November 2020. Bids to be received by 30 September 2018, to be decided at the October 2018 C&CC meeting. (Note preferred location in recommendation 26)
13. To approve the 2018 budget, and to receive the indicative budgets for 2019 and 2020. The budget for each year is to be approved at the Council meeting in the previous year. The 2019 budget will be reviewed and approved at the next C&CC meeting in October. It was noted that the allocated budget for a Commission is a total of 4090 EUR for 2018-2020,

to be spent on the business of the Commission. Claims against this allocation are to be provided to the Office.

14. To develop a strategy regarding members which will be more proactive in attracting new members, and which will preserve existing members.
15. To better connect the Newsletter to the work of the commissions.
16. To be able to decide on the list of members of the Neutrino panel in next C&CC October 2018 meeting, or before by email.
17. To ask questions on Commission and Working Group reports in C&CC October 2018 meeting.
18. To defer discussions on the composition of the Working Group on industry to the C&CC October 2018 meeting.
19. To provide strong IUPAP support to the LAAAMP and the Gender gap ICSU projects to make them a success
20. To add on the conference website the statement from §9.2 of the 2017 C&CC minutes regarding the 20% target, and the 10% absolute minimum for participation of women in conference committees, and implement the limit for 2019 conferences
21. To ask in the conference report for the names of the officers who advise on harassment issues.
22. To discuss in next meeting the Waterloo Charter on women in physics in preparation for it to be the subject of a resolution at the 30th GA.
23. To lobby and vote for keeping regional offices in ISC.
24. To explore stronger links between IAPS and IUPAP at the next C&CC.
25. To clarify the mechanism by which IUPAP representatives on BIPM committees are appointed, and if necessary strengthen the IUPAP involvement in the process.
26. In implementing recommendation 12, to note that, it is desired that the GA of 2023, on the 100th anniversary of our first GA in Paris in 1923, should also be in Paris, and that GA 2020 should not be in Europe. The Middle East and Asia are preferred locations.
27. To consider inviting the IAU to support the IYBSD and to join the Steering Committee of IYBSD.
28. To develop a proposal for the management of candidates for IUPAP Young Scientist Prizes who are working in interdisciplinary fields.
29. To publicize the 2022, and 2023 centenaries and what we are considering doing to Commissions, Liaison Committees, etc. and inviting input and volunteers to assist. Monica, Presidents,
30. To set the date of next meeting of C&CC to be 31 Oct to 2 Nov. (This has been incorporated into the revised wording of recommendation 10).
31. To agree that the next meeting will have 1 hour devoted to physics highlights