

Minutes of IUPAP C&CC Meeting

9.00 am 27 October to 9.00 am 12 November 2015

(Singapore time)

1. Procedure

It was agreed that the meeting would be conducted by email in the following way. Participants will be asked to make comments to all other members, to ask questions of them, and to answer questions by email to all other members in respect of the following items in turn: 1-5; 6; 7-8; 9-13; 12-14; 15-17; 18; 19. Each discussion period will start with some comments from one of the officers, and will be open for 48 hours. At the end of the session the discussion will be summarised, and the items approved and those agreed for future action will be incorporated in a paper to be considered in §19 (Session 7). The discussions will start at 9am Singapore time (UTC 0100) on 27 October. There will be no session on 8 and 9 November, and the final session will be on 10 and 11 November. The meeting will conclude at 9am Singapore time on 12 November. Participants may comment on topics before or after the scheduled discussion period if they have timing problems. Late comments will be incorporated into the session summary, and if they require further discussion that will be taken up in §19. The final session, Session 7 (§19), is the approval of the decisions tentatively arrived at in the previous sessions, now that they can be seen as a whole. Technically the final session is the meeting of the Executive Council, but all participants in the C&CC meeting will be asked to comment and vote.

After the meeting participants will be asked to evaluate the experiment of having an electronic meeting

Note that papers considered by the meeting are available at

<https://my.onedrive.com/index.php/s/rlxUf2rlwKTJ3qY>

2. Approval of Agenda

The initial agenda was approved, and it was agreed that changes could be made as the meeting progressed.

3. Minutes of Trieste Meetings

1. **The minutes of Council Meeting, paper 3.1 *C&CC-MINUTES-APRIL-2015*** were approved.
2. **The minutes of the C&CC meeting, paper 3.2 *Executive-Council-Minutes-April-2015*** were approved

3. **The record of items approved by Council by email, paper 3.3 *Email IUPAP EC decisions revised*** were noted and endorsed

4. **Matters arising** from the various minutes were included in the agenda at the appropriate places.

4. **President's Report, paper 4-*President's report-20151023*** was received.

5. **Secretary General's Report, paper 5-*Secretary_Gen_Report-2015-Draft*** was received

1. **Newsletter #2, paper 5.1-*IUPAP-Newsletter#2_aug_2015_8e***

The electronic version of the newsletter #2 was received. Participants were encouraged to provide material for future newsletters and production of an additional newsletter in December 2015 was anticipated.

2. **The IUPAP Webpages**

Suggestions for the improvement of the website were given. Some reports of errors or broken links were provided. More reports of errors and broken links are encouraged.

6. **Financial Matters**

1. **Financial Statement 2014, and 2012-2014 triennium, paper 6.1**

IUPAP-financial position-2012-2014

These statements of financial position are based on the audited 2014 accounts of IUPAP-UK and the un-audited 2015 accounts of IUPAP-UK and IUPAP-Singapore. The auditor made no qualification of the accounts.

A. the financial statement 2014. was received and approved

B. the financial statement 2012-2014 was noted. In particular it was noted that IUPAP starts the 2015-2017 triennium with a healthy reserve fund of 1,080,329 EUR, because

- the administration vigorously encouraged members to pay their dues, and this has led to an income in excess of that budgeted. The budgeted income allowed for a larger level of non-payment than actually occurred
- the 2012-2014 Executive Council took decisive action to reduce the expenditure
- Our expenditure on the 2014 C&CC and GA meetings was much less than budgeted for, thanks to the very generous support of our hosts, the Institute for Advanced Studies of the Nanyang Technological University

2. 2015 Year to date financial position, paper 6.2 *iupap budget*

2015-2017 was noted.

3. The budget for 2016, paper 6.2 *iupap budget 2015-2017* was approved

4. The budget estimates 2017, paper 6.2 *iupap budget 2015-2017* were noted. In particular it was noted that

- We budget annually over the triennium, and can move expenditure items between years in the triennium, but not outside this budget cycle. The balance at the end of the triennium is moved to reserves.
- Commissions receive 4090 EUR total each over the 3 years
- Working groups get 2500 EUR per annum each, except for WG5, Women in Physics, which gets 17500 EUR per annum. The additional 15000 EUR are used to support attendance by women at conferences.
- The 7500 EUR pa for new programs is to cover the Advisory Working Groups on soft matter, on accelerator physics, and the new working group on measurement of G at 2500 EUR pa each.
- 5000 EUR pa has been allowed for Newsletters and reports, because we need to enhance our communications.
- Secretariat fees reduce to 40000 EUR pa in 2016 and 2017 because our UK Charitable Company will be wound up at the end of 2015, rather than the end of 2016 as previously expected.
- We significantly overspent on our April C&CC meeting, largely because we have no control of airfares. Members were urged to take the most economical air fare. The budget for C&CC meetings has been increased to 40000 EUR to allow for inflation in air fares and accommodation costs,
- It is estimated that we will finish 2015 with a surplus.
- The 2017 budget shows a very small cumulative surplus. Unless the economic situation improves and payment of dues is increased, very careful control of spending will be necessary to avoid a deficit for the triennium

7. Approval of 2016 Sponsored Conferences, papers 7-1 IUPAP 2016

Conferences Applications and 7-2 Details IUPAP conference 2016

It was agreed that we would decide which conferences should be supported and which category they should be placed in. After agreeing that some conferences will be approved but not given financial support, we then give all of the conferences in the A, B C and D classifications the same level of funding, and adjust that funding so that the budget allocation for Conferences and Travel Grants is not exceeded.

It was agreed to sponsor the following conferences in the categories shown

Com	CAT	Title	Acronym
C2	B	International Conference on Precision Physics of Simple Atomic Systems (PSAS)	PSAS 2016
C3	A	The 26th IUPAP International Conference on Statistical Physics	STATSPHY-26
C3	C	International workshop on jamming and granular matter	WJGM 2016
C3	B	Long-range interacting many-body systems: from atomic to astrophysical scales	LRIMBS 2016
C4	B	19th International Symposium on Very High Cosmic Ray Interactions	ISVHECRI 2016
C4	B	Identification of Dark Matter	IDM 2016
C4	C	25th European Cosmic Ray Symposium	ECRS-25
C4	C	COSPAR E1.9: Origin of Cosmic Rays	COSPAR:OCR
C5	B	International Conference on Quantum Fluids and Solids	QFS-2016
C6	C	Engineering approaches to biomolecular motors: from in vitro to in vivo	EABM
C8	A	33rd International Conference on the Physics of Semiconductors	ICPS-33
C10	A	Sixth International Conference on Nanostructures (ICNS6)	ICNS6
C11	A	ICHEP, International Conference on High Energy Physics	ICHEP-2016
C11	B	XXVII International Conference on Neutrino Physics and Astrophysics	ICNPA-27
C11	B	SUSY (Supersymmetry) 2016	SUSY 2016
C11	C	XXIII International Baldin Seminar on High Energy Physics	BALDIN-23
C12	A	International Conference on Nuclear Physics	ICNP 2016
C12	B	International Symposium on Nuclei in the Cosmos	NIC 2016
C13	D	African School on Electronic Structure Methods and Applications	ASESMA 2016

Com	CAT	Title	Acronym
C13	D	The 4th Biennial African School of Fundamental Physics and Applications	ASFPA-4
C13	D	Entrepreneurship Development for Physicists	EDP
C14	B	Contemporary Science Education and Challenges in the Present Society: perspectives in Physics Teaching and Learning	CSECPS-PTL
C15	A	25th International Conference on Atomic Physics	ICAP-25
C15	B	18th International Conference on the Physics of Highly Charged Ions	HCI 2016
C15	C	9th International Meeting on Photodynamics and Related Aspects	IMPRA-9
C16	A	International Congress on Plasma Physics (ICPP) - 2016	ICPP 2016
C17	B	International Laser Physics Workshop	ILPW 2016
C18	B	Mathematical Results in Quantum Theory: QMATH 13	QMATH 13
C18	B	14th International Conference on Integral Methods in Science and Engineering	IMSE 2016
C19	C	3rd PANDA Symposium on Multi-Wavelength Time Domain Astronomy	PADMA-3
C20	B	International Conference on Computational Physics	CCP2016
AC2	A	21st International Conference on General Relativity and Gravitation	GR-21
AC3	A	22nd International Congress on Acoustics	ICA-22
AC4	A	22nd International Conference on Medical Physics	ICMP 2016

There was much discussion about the funding levels for the different categories of conferences, in particular whether or not to follow the practice of recent years in giving the category C conferences zero funds. Two opposing views were

- A. That giving a high level of funding to the flagship conferences, and in consequence giving category C conferences no funding.
- B. The importance of encouraging smaller conferences by giving them some funding, for example 1500EUR for each category C conference.

In a ballot the majority opinion was for option A and it was decided to fund the approved conferences as follows:

CAT	Funding level	Number	Total funding
A	11500	10	115000
B	5000	14	70000
C	0	7	0
TOTAL A-C			185000
D	7000	3	21000

It was noted that the funding level of 11500 EUR for category A conferences includes 5000 EUR as a travel grant, to be spent in support of delegates from developing countries.

It was agreed that this option would apply for 2016 conferences and the distribution of conference support for 2017 conferences would be reconsidered at the 2016 meeting of C&CC.

1. Requests for endorsement already approved, paper 7-3 *Endorsed Conferences (Apr-Sept 2015)* were noted

8. Reports of the Gender Champion, papers 8.1 *Report_Gender_Champion_2015*, 8.2 *conference-report-form-2015-10-31*, 8.3 *gender champion report 2014*.

The 2015 Gender Champion is congratulated on her excellent report. The 2014 report of the then Gender Champion was noted to give an historical perspective. Comparing the two one sees that the participation of women is much the same, but that a much larger fraction of conferences have reported. Congratulations to Alinka, Maitri and the Commission Chairs on encouraging the better return rate.

9. Commission Reports, in the folder 9-Commission Reports, were noted and discussed.

1. Appointment of Associate members, paper 9.1-Associate

Members_v5-20151110

It was agreed to appoint these Associate Members of Commissions and Affiliated Commissions

Commission	Associate Members (2015 - 2018)
C2	
C3	Jan de Gier (Australia)
	Timoleon Kofane (Cameroon)
C4	Steve Barwick (USA); neutrino astronomy
	Ilya Usoskin (Finland); Heliospheric physics
	Albert de Roeck (Belgium); Particle physics
	Laura Baudis (Switzerland); Dark Matter
C5	
C6	

Commission	Associate Members (2015 - 2018)
C8	Joël Cibert (France - C9)
	Vladimir Kulakovskii (Russia - C10)
	Thaddeus Ladd (USA - C17)
C9	
C10	
C11	Eugenio Nappi (Italy - C12)
C12	
C13	Kennedy Reed (USA)
	François Piuzzi (France)
	Gorazd Planinsic (Slovenia - C14)
	Claes Fahlander (Sweden - C12)
C14	Manjula Sharma (Australia)
C15	Angela M. Guzmán (AC1)
C16	Mitsuru Kikuchi (Chair, AAPPS DPP, Japan)
	David Meyerhofer (Chair-elect, APS-DPP, USA)
	next Chair of the EPS-DPP
	C. Z. Frank Cheng (Chair of ICPP 2016, Japan)
C17	Nicholas P. Bigelow (Joint Council of Quantum Electronics, USA)
	John Harvey (ICO, New Zealand)
	John Dudley (IYOL legacy, France)
C18	Robert Seiringer (President, International Association of Mathematical Physics, Austria)
C19	Hans Kjelds (Denmark)
	Weiping Liu (China - C12)
	Keiichi Maed (Japan)
	Virginia Trimble (IAU Representative, USA)
C20	
AC1	Deb Kane (Australia - C17)
AC4	Aihua Xie (USA - C6)
	Sandro Scandolo (Italy - C13)
	Hideo Nitta (Japan - C14)

10. Affiliated Commission Reports, in the folder 10-AC reports, were noted.

11. Working Group Reports, in the folder 11-WG Reports were noted

1. Working Group 2 membership and chair

Following the resignation of Gene Sprouse Chair and a member of WG2 — Communication in Physics, there are continuing discussion with potential new chairs. This is an important working group for us, given the activity in open access publishing and in open data. Nominations for the position(s) will be brought to the Executive Council as soon as possible.

12. Appointment of Inter-Union Representatives papers 12.1-iu-reps

20150425 and 12.2-iu-reps 20151102

The following are to be appointed as IUPAP Inter-Union representatives for the period 2015-2017

IUPAP Representative to	Representative	Country	Commisoin or WG
I.U.1. International Council of Scientific Unions (ICSU)	Barbara Erazmus	France	
I.U.2. Committee on Data for Science and Technology (CODATA)	Peter Mohr	USA	C2
I.U.4a. Consultative Committee on Units (CCU)	Peter Mohr	USA	C2
	William Phillips	USA	C2
I.U.4b. Joint Committee on the Guides to Metrology (JCGM)	Wolfgang Wöger	Germany	C2
I.U.8. Scientific Committee on Problems of the Environment (SCOPE)	Jon Samseth	Norway	WG 12
I.U.10. Scientific Committee on Solar-Terrestrial Physics (SCOSTEP)	Mark Lester	UK	C4
I.U.14a. Interdivisional Committee on Terminology and Symbols (ICTNS)	Stephen N.Lea	UK	C2
I.U.14b. Interdivisional Committee of Isotope Abundances and Atomic Weights (CIAWW)	Kumar Sharma	Canada	C2, C12

IUPAP Representative to	Representative	Country	Commisoin or WG
I.U.15. Bureau International des Poids et Mesures (BIPM) France	Martin Milton	BIPM	C2
I.U.16. International Electrotechnical Committee (IEC) Russia	Savely Karsheboim	Russia	C2

Note added: After the meeting Barbara Erazmus declined the appointment, and Council, in an electronic vote, appointed Kennedy Reed, the President Designate and a former member of the ICSU Executive Board as the Inter-Union Representative for ICSU

13. ICSU Matters

1. ICSU Grants

The new ICSU Grant Program is yet to be announced

2. Science International, papers 13-1 Science International and 13-2 Science International Open Data accord - draft 3 clean

ICSU has formed a “super group” ‘Science International’ described in paper 13-1 in the owndrive. ‘Science International’ is a new coalition of major international science bodies. Participating in the initiative are the International Council for Science, the International Social Science Council, The World Academy of Sciences and the InterAcademy Partnership. It has been formed

- to consolidate a fragmented global science policymaking landscape, creating a single, recognised and authoritative global voice of policy for science;
- to deepen strategic alignment amongst partner organisations and develop a platform to catalyse future high-impact initiatives and
- to tackle one issue of relevance to global science policy each year and to follow up on its recommendations over the following two to three years.

This year’s issue is open data. The present draft paper on this subject is paper 13-2 in the owndrive. I expect it to be significantly modified as a result of the webinar.

14. New Developments

1. Associated Organisations (Report of Subcommittee), paper 14.1-

DRAFT-SpecialComm_AssocMembers-20151104

It has become clear that this is a much bigger job than anticipated, and that the committee needs to be continued.

It was agreed that the Subcommittee be continued to the GA 2017 (the Executive Council does not have authority to extend the Sub Committee beyond that date),

and be asked to extend its work to include the question of how to best interact with the many societies representing physicists in IUPAP members and non-members, and that they be able to co-opt additional members to the Subcommittee, in consultation with the President. The Sub Committee is to provide an interim report to the 2016 C&CC meeting.

2. Soft matter

Dieter Richter, who was to convene the interim working group on soft matter, is now unable to do so. The President will bring a proposal for the position of convenor to the Executive Council by email, with some suggestions for the membership of the interim working group, in the near future.

3. Accelerator Science

The President apologised for the delay in putting the interim working group on Accelerator Science together, because he had been distracted by personal matters. Lia Merminga, who took up the position of Associate Laboratory Director of the SLAC National Accelerator on 5th October, has agreed to Chair the group if she is appointed to do so. She moved to SLAC from the position of head of the accelerator division at TRIUMF, Canada's national laboratory for particle and nuclear physics. Prior to joining TRIUMF in 2008, Merminga was at Jefferson Lab for 16 years, where she worked first as a staff scientist and later as the director of the Center for Advanced Studies of Accelerators. Before her assignments at Jefferson Lab, she worked at SLAC as a visiting scientist from 1989 to 1992. Her research interests include advanced accelerator systems and nonlinear dynamics, design and development of SRF linacs with a recent focus on high power electron linacs for the production of rare isotopes, and energy recovery linacs with applications to free-electron lasers, synchrotron radiation sources, and electron-ion colliders for nuclear and particle physics. Lia was nominated to the group by WG9.

The President is consulting with her on the membership of the working group, to be selected from the pairs of nominees put forward by each of the groups we approached for advice. Those nominations, viewed as a whole, have some problems. Of the 26 nominees, only 2 were women and both are at the same laboratory. There were also no nominations representing the smaller accelerators used in industry. It is proposed to expand the group beyond the original 12 to cover these gaps.

These discussions are not quite concluded, and the appointment of the members will be decided in a separate email consultation with C&CC.

It was agreed that Lia Merminga be appointed as the Chair of the Interim Working Group on Accelerator Science.

4. Endorsement of Conferences

When Commission Chairs propose conferences for IUPAP endorsement, and IUPAP agrees, the conference organisers can put the IUPAP logo on their webpage giving IUPAP publicity, and they have added bargaining power in seeking financial support.

Another use of endorsement is to make sure that all of the legitimate conferences in your field are endorsed, to provide a way of distinguishing them from the fake conferences which abound.

The web page write up on Conferences is to be redone to more clearly separate the concepts of sponsorship and endorsement

The form for application for endorsement will be made available on the IUPAP web page in a non active form, and Conference Organisers seeking endorsement are encouraged to enter discussions with the appropriate Commission Chair. The active form will be in the C&CC ondrive site, from where it can be submitted by the Commission Chair.

15. Noting of matters to be pursued

1. New members

One of the advantages of moving our office to Singapore is that we now have very good contacts in the Asia-Pacific region and in particular with ASEAN countries. Among other things, Kwek is heavily involved in the regional Physics Olympiad, which moves from country to country. C1 has decided that it is appropriate to exploit these opportunities to seek new members in the region. The only existing IUPAP members in ASEAN are Singapore and the Philippines.

1. Malaysia

After the 2014 General Assembly, Bruce spoke at the 2014 meeting of the Malaysian Physical Society, using a part of his time to explain who IUPAP is and what it does. After consultations with the President of the Malaysian Institute of Physics, KuruRatna Nathan and the former President, Chia Swee-Ping, Bruce had discussions with the Academy of Science Malaysia (ASM) Vice President for Physical Sciences, Datok Prof Dr Mohammad Yahaya, to put a case for Malaysia to become a member of IUPAP. As a result of that meeting, the ASM made a request to the Department of Science that the Malaysia, through the Academy, become a member of IUPAP. Recently the Department asked a series of questions of the Academy, and replies have been given.

2. Brunei

The IUPAP President met with representatives of the Universiti Brunei Darussalam (UBD):

- Dr Joyce Teo Siew Yean - Assistant Vice Chancellor (Global Affairs)
 - Dr Sabrina Dato Daud - Deputy Director Global Relations
 - Dr Jimmy Lim, . Director, Centre For Advanced Material And Energy Science
 - Professor Liyanage - Deputy Director (Faculty Integrated Technology)
- on Thursday 29th October 2015 for approximately 2 hours. Flight timetables necessitated my leaving Singapore on 28th to be able to get to the meeting.

Joyce and Jimmy were working on a proposal for membership of IUPAP which they will need to present to the Senior Management of UBD as well as to seek the Senate's approval.

3. Vietnam

Bruce and Kwek arrived in Hanoi on Oct 30, 2015, and met up with Nguyen Dai Hung (Institute of Physics, Vietnam Academy of Science and Technology, VAST and President, Vietnam Physical Society, VPS), Nguyen Thanh Binh (Institute of Physics, VAST) and other senior physicists of VAST research institutes.

Dai Hung informed us that VAST has already put up a proposal to the Vietnamese Government (Prime Minister Office, PMO) for funding to join IUPAP earlier on in March 2015, when a directive from the PMO decreed and approved a program of development in the field of Physics in Vietnam by 2020. In short, Vietnam is eager to join IUPAP although the details concerning the funding for the membership shares will be decided later.

The IUPAP delegation was also briefed the numerous events that has been organized for 2015 and also the activities that have been planned for the 2016 Calendar. The VPS will be celebrating its 50th Anniversary (1966-2016) on November 2016. The main celebration will be held in conjunction with the 8th National Conference on Physics.

We were impressed by the high level of physics activity in Vietnam and believe it will be a valuable member of IUPAP.

4. Thailand

Kewk has been in contact with the President of the Thai Physical Society and has been advised that the appropriate time to make a presentation to the Physical Society of Thailand is at the time of the Siam Physical Congress in May 2016. We have received an invitation to participate in the Siam Physical Congress.

2. Increasing shares of existing members

IUPAP must convince our members that we are indeed assisting in the worldwide development of physics, fostering international cooperation in physics, and helping in the application of physics toward solving problems of concern to humanity. Our newsletters and our webpage are important parts of that, but personal contacts are more important. Members of C&CC are urged to take every opportunity to promote IUPAP, and especially to ensure that your Commission members are enthusiastic about your activities, are knowledgeable about IUPAP activities beyond their own Commission, and are communicating their enthusiasm for IUPAP to their member's liaison committee or liaison person. It is expected that members will say some words about IUPAP at appropriate international conferences, and are encouraged to make such a presentation at your national physics conference.

The President will write to all liaison officers asking them to facilitate giving you such an opportunity.

The office will provide a sample powerpoint presentation about IUPAP for your use.

3. Increasing the maximum number of shares which can be taken

To be further discussed

4. Revision of web page write up re Conferences

The web page was revised as a result of the discussion

5. Revision of Statutes

To be further discussed

16. Feedback on initiatives

1. Commission communications

Only one member found that his organisation blocked his access to the ondrive papers, and alternative arrangements were made for that member.

Commissions could use this as a way of communicating with their members if they wished

2. Centenary, commemorative publication, commemorative meeting, newsletter items and web events in 2022, paper 16.2-IUPAP

Centennial- 2

The options for events to celebrate the IUPAP Centenary were noted and will be further developed.

17. Any other business

1. Numbering of new working groups

It was agreed to number the new working groups as

- WG13 — Working Group on Newton's Constant G
- WG14 — (Interim) Working Group on Accelerator Science
- WG15 — (Interim) Working Group on Soft Matter

2. Policy on Reimbursement of Expenses

1. Currency for calculation of reimbursement

C1 will provide further suggestions on this topic.

2. Policy on receipts

At present we require receipts for all expenses submitted. After the Trieste meeting the President took the executive decision to allow reimbursement of expenses where no receipts were available subject to

- A signed statement stating the amount paid and what it purchased,
- The total non-receipted expenses connect to any event being restricted to 100 EUR

This policy on receipts was adopted

3. General Report

If you look on the website you will see that in the year following a General Assembly IUPAP produces a General Report

This report is now in a first draft and will be circulated in the near future, but perhaps not until early in the new year.

18. Future meetings

We thank our members for their invitations, and for giving us the task of deciding which to accept.

In determining the location of future meetings we have to balance two principles

- A. The need to minimise the expense incurred by IUPAP
- B. The need to move IUPAP meetings around different IUPAP members and different global regions.

As you see below these principles may be in conflict and judgement is required.

1. C&CC meeting 2016

Invitations have been received from Spain, Taiwan and Lithuania. These, together with an estimate of the likely airfares, taken from Expedia, are in the paper 18.1-C&CC 2016.pdf.

Although the estimated airfare for Taipei are the lowest, this is essentially balanced by the room cost and the cost of transfer to and from the airport in the case of Vilnius. In cost terms Vilnius and Taipei are essentially equivalent. Neither has hosted the C&CC meeting previously.

However, the two previous C&CC meetings were in Europe, and so it was agreed that the 2016 C&CC meeting be held in Taipei at a time in October or November to be determined.

2. C&CC meeting and GA 2017

Invitations have been received from China, Natal (Brazil) and Sao Paulo (Brazil). These, together with an estimate of the likely airfares, taken from Expedia, are in the paper 18.2-GA 2017.pdf.

This time the above principles are in conflict. Beijing is the cheapest option for IUPAP. However, the previous GA was in Asia and no GA has been held in South America. Moreover, the most recent GA in the Americas was in 1999. Of the two Brazilian invitations, cost estimates favour Sao Paulo.

It was agreed to hold the 2017 GA in Sao Paulo, subject to the endorsement of the invitation by the Brazilian Physical Society (Sociedade Brasileira de Física, [SBF]) and by the IUPAP Liaison in Brazil.

Note added: the invitation has been endorsed by the SBF.

The meeting closed with the formal adoption of the agreed positions