

Recommended Actions

IUPAP C&CC Meeting

Session 7 9.00 am 10 November to 9.00 am 12 November 2015

1. Procedure for Session 7

This session is a consideration of the recommended actions and decisions I have distilled from the discussion of the past two weeks. If you wish to comment on any of the items please do so, especially if you feel I have not identified the consensus of the discussion of this topic, or if you wish to add to the discussion. When you are ready to indicate your position on these recommendations, please download this file, and rename it so that it starts with your initials, e.g. I would rename it as BMcK Recommended Actions.pdf. Then use your pdf reader to check the appropriate boxes and send the file to our office. Of course if you wish to distribute your responses to the whole of the C&CC you are welcome to do so.

Voting has been provided only in those cases where

- A. It is a technical requirement, or
- B. There was no clear consensus in the discussion.

Please return your file by 9am Singapore time on 12 November. It is noted that this will not be possible for some members and those should return their file as soon as possible to complete the record.

2. Approval of Agenda

Additional items were added to the agenda. The final agenda without notes is paper 2.1 iupap-C&CC-meeting-agenda-20151027

3. Minutes of Trieste Meetings

1. Minutes of Council Meeting, paper 3.1 C&CC-MINUTES-APRIL-2015 **APPROVED**
2. Minutes of the C&CC meeting, paper 3.2 Executive-Council-Minutes-April-2015 **APPROVED**
3. Record of items approved by Council by email, paper 3.3 Email IUPAP EC decisions revised **NOTED AND ENDORSED**
4. Matters arising

INCLUDED IN THE AGENDA AS APPROPRIATE

4. President's Report, paper 4-President's report-20151023

RECEIVED

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

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 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 or 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. BE RECEIVED AND

APPROVED

YES

NO

ABSTAIN

B. THE FINANCIAL STATEMENT 2012-2014 BE NOTED.

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

2015-2017 **NOTED**

3. Budget for 2016 for approval, paper 6.2 iupap budget 2015-2017

APPROVED

YES

NO

ABSTAIN

4. Budget estimates 2017, paper 6.2 iupap budget 2015-2017 **NOTED**

7. Approval of 2016 Sponsored Conferences, papers 7-1 IUPAP 2016 Conferences Applications and 7-2 Details IUPAP conference 2016

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:O CR
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

Com	CAT	Title	Acronym
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
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

Com	CAT	Title	Acronym
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	ICPP 2016
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. The two opposing views were

- A. The importance of giving a high level of funding to the flagship conferences, and in consequence giving category C conferences no funding. With this in mind the proposed funding levels, which use up the total available funds, are

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

- B. The importance of encouraging smaller conferences by giving them some funding. One possible scenario for this, which uses up all but 500EUR of the available funds, is

CAT	Funding level	Number	Total funding
A	11100	10	111000
B	4500	14	63000
C	1500	7	10500
TOTAL A-C			184500
D	7000	3	21000

PLEASE VOTE FOR YOUR PREFERRED OPTION:

OPTION A YES NO ABSTAIN

OPTION B YES NO ABSTAIN

Which ever option is adopted for this occasion, because conferences are such an important part of the work of IUPAP, we will continue to discuss how we support them.

1. Consideration of the IUPAP Procedures for Conferences

The current procedure is to 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.

AGREED THAT THIS WILL BE THE PROCEDURE FOR THE PRESENT ROUND

2. Note requests for endorsement already approved, paper 7-3

Endorsed Conferences (Apr-Sept 2015) NOTED

8. Report 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 NOTED

The Gender Champion is congratulated on her excellent report. The 2014 report of the then Gender Champion is posted as paper 8.3 gender champion report 2014.pdf, to provide 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 NOTED

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	
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)

Commission	Associate Members (2015 - 2018)
	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)

Commissions and Affiliated Commissions who do not have their full quota of four Associate Members may propose additional associate members which will be considered by the Executive Council electronically.

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

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

13. ICSU Matters

1. ICSU Grants **NOTED**

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** **NOTED**

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 organizations 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.

I recommend 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.

DO YOU AGREE? YES NO ABSTAIN

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

I have to apologise for the delay in putting the interim working group on Accelerator Science together. It is entirely because I have 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 we appoint her 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.

I am 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. We will expand the group beyond the original 12 to cover these gaps.

These discussions are not quite concluded, because of the need to confirm availability by the time of our last session on §19, I expect I will need to ask for the appointment of the members in a separate email consultation with C&CC.

I recommend that Lia Meringa be appointed as the Chair of the Interim Working Group on Accelerator Science. AGREED

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 owndrive site, from where it can be submitted by the Commission Chair. AGREED

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, papre 15.1.2-iupap-ubd-report

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)
- at 0930 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.

I was advised that Joyce and Jimmy were working on a proposal for membership of IUPAP which he will need to present it to the Senior Management of UBD as well as to seek the Senate Meeting's approval.

3. Vietnam, paper 15.1.3-iupap-vietnam-report

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. I urge you 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. I expect that you do say some words about IUPAP at appropriate international conferences, but I encourage you to make such a presentation at your national physics conference.

I 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

A draft of the proposed changes will be provided before mid December.

5. Revision of Statutes

I will discuss the matter further in the new year.

16. Feedback on initiatives

1. Commission communications

IF YOU DO NOT CHECK THE YES BOX A NO WILL BE ASSUMED

- A. Do you find the owndrive arrangements satisfactory for this meeting? YES
- B. Do you recommend that we continue to use the owndrive site for C&CC papers? YES
- C. Do you want us to establish an owndrive account for your Commission? YES

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

Centennial- 2 **NOTED**

17. Any other business

1. Numbering of new working groups

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

AGREED

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 I 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

I request that this policy on receipts be endorsed

AGREED

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 I recommend that the 2016 C&CC meeting be held in Taipei at a time in October or November to be determined.

AGREED

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, costs estimates favour Sao Paulo.

I recommend that we 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.

AGREED

19. Review and approval of decisions, paper 19.1-recommended

actions.

The actions I recommend to the Council and Commission Chairs are listed in the paper 19.1-recommended actions.

This session is a consideration of the recommended actions and decisions I have distilled from the discussion of the past two weeks. If you wish to comment on any of the items please do so, especially if you feel I have not identified the consensus of the discussion of this topic, or if you wish to add to the discussion. When you are ready to indicate your position on these recommendations, please download this file, and rename it so that it starts with your initials, e.g. I would rename it as BMcK Recommended Actions.pdf. Then use your pdf reader to check the appropriate boxes and send the file to our office. Of course if you wish to distribute your responses to the whole of the C&CC you are welcome to do so.

Voting has been provided only in those cases where

- A. It is a technical requirement, or
- B. There was no clear consensus in the discussion.

Please return your file by 9am Singapore time on 12 November. It is noted that this will not be possible for some members and those should return their file as soon as possible to complete the record.