

56 P. 6

MC 0573

IUPAP, 1974

MC 572 of

BOX 6-09 FOLDER 4

97-72 b3

NATIONAL RESEARCH COUNCIL
NATIONAL ACADEMY OF SCIENCES NATIONAL ACADEMY OF ENGINEERING
2101 CONSTITUTION AVENUE WASHINGTON, D.C. 20418

DIVISION OF PHYSICAL SCIENCES

Address reply to:
Office of the Chairman
Department of Physics
Yale University
New Haven, Connecticut 06520

20 August 1974

Memo to: Members USNC-IUPAP
From: D. A. Bromley
Re: The Callen Statement

I write to you concerning the statement "Statement of Members of USNC-IUPAP" which was forwarded to you earlier in the summer by Herb Callen for your consideration and possible endorsement. It is included herewith as Attachment A together with Callen's letter transmitting it formally to me.

Attachment B is a listing of the full membership of USNC-IUPAP divided as to their action -- or lack of it -- on this proposed statement.

Because it is an extremely important issue, and because many members of USNC-IUPAP have very strong sentiments concerning it, I am writing to you in some detail in the hope that the matter can be resolved insofar as our Committee is concerned.

You will recall that following substantial time devoted to discussion of these issues at our plenary meeting in Washington last spring, Slack, Dow, Weisskopf and I drafted a letter to Kerwin presenting our concerns regarding violations of the spirit of IUPAP and ICSU statutes and regulations. This draft was sent to you for comment and modification; with modifications -- and strengthening -- as suggested by a number of you it was forwarded formally by Slack to Kerwin. A copy of Kerwin's response, dated July 30, 1974, is included as Attachment C.

I shall not discuss further our concerns regarding the adequacy of IUPAP sponsored conference proceedings, as expressed in the Slack letter, but will concentrate on the matter of free circulation of scientists raised again in the Callen statement. For your reference Attachment D abstracts the recent chronology of ICSU and IUPAP actions on this question.

On the basis of all that I have been able to read on the matter -- and discussions with a number of you -- it seems to me that there are three separate areas of concern vis-a-vis the situation of Azbel, Gitterman, and Voronel (hereafter AGV):

1. They were prevented from attending the IUPAP sponsored meeting.
2. They have been removed from their professional posts; have been subjected to harassment; and indeed more recently to persecution and arrest.
3. They have not -- with one possible, but as yet rather ill-defined, exception -- been allowed to emigrate from the Soviet Union.

It seems fair to say that most, if indeed not all, of the members of USNC-IUPAP share the conviction that AGV have been victims of the Soviet System. But the avenues open to the Committee are very much limited and nothing will be gained by our pursuing those which Soviet members bent on legalistics can readily block. It seems to me most important for us to try to understand what avenues we do have at our disposal.

Contrary to the last sentence of the Callen statement it is not clear to me what ICSU statute or statutes the Soviet Union has violated. So far there has been to my knowledge no evidence presented to counter Vonsovsky's assertion to Rado that AGV had applied after the official deadline for admission to the conference and hence were excluded on the basis of published "rules." The unwillingness of the conference organizers to bend the rules a little is a clear and obvious violation of the spirit of the ICSU statement, as amended, on nondiscrimination and it is quite clear that there may have been reasons beyond their control why AGV were late in applying. This violation of the spirit of the ICSU statements clearly can be deplored and pressure can be applied privately wherever possible (as indeed it was by Rado in Moscow even without apparent success at the time). It seems to me, however, that the statement that the unwillingness of the conference organizers to make exemptions to the published rules of the conference is a violation of the ICSU statute itself is not one which could be supported.

Indeed it is important to note the full text of that section of the amendment quoted in the second paragraph of the Callen statement. It is the following:

"5. In pursuing these objectives the Council shall observe the basic policy of nondiscrimination and affirm the rights of scientists throughout the world to adhere to or to associate with international scientific activity without regard to race, religion, political philosophy, ethnic origin, citizenship, language, or sex. The Council shall recognize and respect the independence of the internal scientific planning of its national members."

As has been pointed out by many people, including Earl Callen, the last sentence of this section is the one which really causes problems. It seems clear to me therefore that we cannot claim that in the first question concerning AGV noted above the Soviets have violated an ICSU statute.

No matter how much compassion we feel for AGV on the second issue our humanistic response, I believe, is constrained to be individual rather than any corporate official one through USNC-IUPAP. I am firmly convinced that Viki Weisskopf's working privately through the IUPAP Executive Committee can, and will, do AGV and the general situation much more good than will any number of formal charges. Here again it seems to me we could be easily countered were we to charge violations of ICSU or IUPAP statutes.

It does seem to me however, as we discussed at the Washington Meeting, that it would be entirely appropriate for us to ask that the IUPAP Executive Committee demand better assurances of better observation of the spirit of these statutes before approving any IUPAP conference in any country. Indeed it seems to me highly appropriate that such assurances be made one of the necessary, if not sufficient, conditions for the granting of approval for conferences either by Commissions or by national Committees. As you may recall I suggested in Washington that we might well develop a standard schedule which could be forwarded to all future conference organizers in which they would be asked not only to provide these assurances but also additional ones concerning adequacy of publication, adequate mechanisms for visa request processing in timely fashion, and so on.

There are certain serious difficulties in requesting fully open conferences, however, because of the traditions which have long been established in a number of Commissions. In Particle Fields, for example, there has been a definite reluctance to admit to their conferences all persons scientifically qualified -- as Frank Yang pointed out at our meeting. The invitation lists have been kept closed in order to keep the conferences to a manageable size.

I have provided Ned Goldwasser with background information on the experience in the nuclear science conferences where a more open policy has been in force. A movement initiated by the faculty of the University of Wisconsin, within the APS Division of Particles and Fields, is applying pressure for opening the Particle and Fields conferences and it may well be that the situation here will change in the not too distant future. At the present time however it would be very difficult for us to make a blanket statement demanding that IUPAP sponsored conferences be open to all scientifically qualified persons.

It seems to me, therefore, that our action here should best be a general one in which we try to insure much closer satisfaction of the spirit of the existing ICSU and IUPAP regulations and that the only avenue open to us here would be through specific recommendations to the IUPAP Executive Committee with the hope that other national committees would follow our lead.

It is clear that as the USNC we have no representatives on the ICSU Executive Committee to instruct. We can forward something to Viki Weisskopf and ask him to do with it what he judges to be most effective within IUPAP, but here again we are really in no position to instruct him. Viki happens to be a U.S. citizen, he is on the USNC, and is also

a member of IUPAP Executive Committee; but he is not our representative and clearly is not someone whom we should, in any case, be instructing to do anything.

With regard to the question of emigration the resolution passed at the September ICSU Assembly had the following to say:

"That the prevention of migration of scientists from a country is an internal political question outside the terms of reference of ICSU but nevertheless a serious challenge to the world scientific community."

and it further noted

"that this problem does not fall within the mandate of the Standing Committee on the Free Circulation of Scientists;"

The action taken at the ICSU assembly was:

"to ask the Executive Board to study how ICSU should approach this new problem -- namely the factual impossibility of migrating from a country and to report to the 15 General Assembly."

This is a rather specific action. To my knowledge no equivalent IUPAP action has been taken but I would assume that it would be very similar, were it available, to that quoted above from ICSU.

I thus find myself back where we left the issue at our Washington Meeting, namely, that our most effective avenue is one of quiet diplomacy utilizing Viki's good offices in the Executive Committee wherever possible and providing him with whatever backup and support he feels would be most effective and useful to him in that context. I also believe that we can have an impact if we arrange to put more specific pressure on both the Commissions and the Committees in their selection of future conference sites in that they attempt much more than has been the case in the past to insure, before the fact, that the spirit of all ICSU and IUPAP regulations will be fully accepted and implemented.

I would welcome your input concerning the possible questionnaire which we might suggest as appropriate for such preconference consideration.

DAB:mn
Enclosures

DA Bromley
R. Black

April 9, 1974

Dr. Heinz Maier-Leibnitz
Deutsche Forschungsgemeinschaft
Kenedyallee 40
5300 Bonnbad
Godensberg 1, FR GERMANY

Dear Maier-Leibnitz:

The other day I had occasion to talk to Bacher in regard to the IUPAP Meeting in Spain. He wasn't sure whether he should attend it or not. If you believe that his presence would be useful, I would suggest that you send him a personal invitation. It is my impression that he would only come when asked by you. On the other hand, if you feel his presence is no longer necessary, all you have to do is not write him a letter. He doesn't expect a letter and he doesn't know that I am writing to you on this issue.

I am looking forward to seeing you again in Spain.

With best regards,

Sincerely yours,

V. F. Weisskopf

VFW:dle

UNIVERSITY of PENNSYLVANIA

PHILADELPHIA 19104

The College

DEPARTMENT OF PHYSICS

July 17, 1974

Professor D. Allan Bromley
Chairman, USNC-IUPAP
Department of Physics
Yale University
217 Prospect Street
New Haven, Connecticut 06520

Dear Professor Bromley:

The enclosed Statement has been endorsed by the following members of the U. S. National Committee, IUPAP:

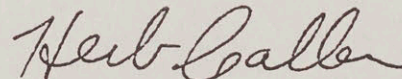
Fay Ajzenberg-Selove
Herbert Callen
E. Richard Cohen
Milan D. Fiske
Kenneth W. Ford
Joseph L. Fowler
Ronald Geballe

John Howard
Evan O. Kane
A. W. K. Metzner
Simon Pasternack
George Rado
Frederick Seitz
Michael Tinkham

Five other members explicitly withheld endorsement, and the remaining members have not responded (I called three such non-respondents, reaching only one, who chose to abstain). One member who withheld endorsement stated that he would endorse the Statement as an individual but not as a member of IUPAP.

In view of the majority endorsement of this Statement, I trust that you will consider appropriate actions on behalf of the USNC-IUPAP.

Sincerely yours,



Herbert Callen
Member, USNC-IUPAP

HC:lr
Enc.

Statement of Members of USNC-IUPAP

We, members of USNC-IUPAP, deplore the violations of ICSU statutes by the Soviet Union in the cases of Mark Azbel, Alexander Voronel, and numerous other physicists. These scientists, having committed and having been charged with no violations of Soviet law, are nevertheless denied their fundamental right to function as scientists, to associate with scientific activities and organizations, and specifically were prevented from participating in the IUPAP-sponsored International Conference on Magnetism held in Moscow, August 22 - 28, 1973.

We note the Amendment to the Statutes of ICSU, adopted September 1972, which

"affirm(s) the rights of scientists throughout the world to adhere to or to associate with international scientific activity without regard to race, religion, political philosophy, ethnic origin, citizenship, language or sex."

We note the Resolution on Free Circulation of Scientists adopted at the XIVth General Assembly of ICSU, which

"Observes, however, with regret, that scientists are still sometimes not allowed freely to attend the appropriate scientific meetings organized by the ICSU family either abroad or in their home countries"

and continues, therefore, to

"Decides to remind the affiliated Unions and other organs of ICSU of their obligation to bring all instances in which the free circulation of scientists has been restricted to the notice of the ICSU Standing Committee on the Free Circulation of Scientists".

In discharge of this mandated obligation we request that such notice be given to the ICSU Standing Committee on the Free Circulation of Scientists, and that our representatives on the International Executive Committees of IUPAP and of ICSU be instructed appropriately to raise the issue of the Soviet Union's violations of ICSU Statutes on Free Circulation of Scientists.

ATTACHMENT B

Members endorsing Callen Statement:

Fay Azenberg-Selove
Herbert B. Callen
E. Richard Cohen
Milan D. Fiske
Kenneth W. Ford
Joseph L. Fowler
Ronald Geballe
John N. Howard
Evan O. Kane
A. W. K. Metzner
Simon Pasternack
George T. Rado
Frederick Seitz
Michael Tinkham

Members not endorsing Callen Statement
(by explicit vote, abstention, or
non-response):

D. Allan Bromley
Lewis M. Branscomb
Sanborn C. Brown
Solomon J. Buchsbaum
Richard K. Cook
Henry Ehrenreich
Anthony P. French
Edwin L. Goldwasser
Melvin Gottlieb
William W. Havens, Jr.
Ira J. Hirsh
Walter H. Johnson, Jr.
William C. Kelly
Mary L. Shoaf
Lewis Slack
Roman Smoluchowski
Cecil J. Waddington
Victor F. Weisskopf
Hugh C. Wolfe
C. N. Yang

C O P Y

UNION INTERNATIONALE de PHYSIQUE PURE et APPLIQUÉE

INTERNATIONAL UNION OF PURE AND APPLIED PHYSICS

Secrétaire-général:

Prof. L. KERWIN
Bureau du Recteur
Université Laval
Québec, P.Q., CANADA
G1K 7P4
Telephone: 418-656-2131

Associate-Secretary-General:

Prof. J. S. NILSSON
Inst. of Theoretical Physics
FACK
S-402 20 Göteborg 5, SWEDEN
Telephone: 031/810100

Québec, July 30th, 1974.

Dr. Lewis Slack,
Secretary - USNC
American Institute of Physics,
335 East, 45th Street,
New York, N. Y. 10017, USA.

Dear Dr. Slack:

Thank you for your comments of June 28th concerning visa problems and internal circulation problems which have arisen at international conferences.

Since you have received the Union documents on the subject, you will know that the Union is in agreement with your views.

In particular, the Executive Committee of IUPAP is to receive a report from Vice-President Vul of the USSR on the circumstances attending the Magnetism Conference in Moscow last summer.

One of our problems is that many complaints are made in a general way and insufficient specific cases are mentioned. That we were able to get precise facts on the Magnetism Conference enabled us to push far for a report from Prof. Vul. All of our Commissions have been repeatedly advised of our policy and requested to keep us informed of transgressions.

Yours sincerely,

(signed) L. Kerwin

Larkin Kerwin

c. c.: Prof. Nilsson

LK:cgb

Chronology of ICSU, IUPAP Actions on Free Circulation

October 1958 - Resolution on Political Non-Discrimination VIIIth General Assembly in which "ICSU affirms right of scientists of any country or territory to adhere to or associate with international scientific activity without regard to race, religion or political philosophy." It further states:

"Meetings or assemblies of ICSU or of its dependent organisms such as its special committees and its joint commissions should be held in countries which permit participation of the representatives of every national member of ICSU or of the dependent organisms of ICSU concerned, and allow free and prompt dissemination of information related to such meetings."

As noted in the April 1960 resolution of the Governing Board of the NAS-NRC, the above resolution "(a) draws a distinction between the recognition of the activities of scientists and the political recognition of the government of the country or territory involved, and (b) affirms the right of the scientists of any country or territory to adhere to or to associate with international scientific activity without regard to race, religion, or political philosophy."

November 1963 - Xth General Assembly ICSU

Resolution on Free Circulation noted ICSU policy of supporting free international collaboration among scientists, noted difficulties existing in free passage of scientists reaffirmed above in the declaration on political non-discrimination and resolved that ICSU meetings should take all measures to ensure the fundamental right of participation without any political discrimination of the representatives of every member of ICSU concerned and of invited observers and recommended that this policy be adopted by the Unions adhering to ICSU for all their activities and invited the ICSU national members to do the same.

October 1966 - Resolution by the Council of NAS-NRC on non-political nature of scientific meetings noted the difficulties arising from introduction of non-scientific issues into Union sponsored meetings urged scientists to maintain ICSU's non-political traditions when participating in union-sponsored meetings.

October 1966 - Executive Committee of ICSU reaffirmed agreement on exclusion of political matters at scientific meetings since it is upon this understanding that ICSU has been able to exert considerable influence in order to ensure free movement of bonafide scientists to attend scientific meetings anywhere in the world.

September 1972 - XIV General Assembly of ICSU returned to matter of political non-discrimination and, having observed "with regret, that scientists are still today sometimes not allowed freely to attend the appropriate scientific meetings organized by the ICSU family either abroad or in their home countries," and having noted

"that the obstacles encountered in recent years have fallen into the following categories:

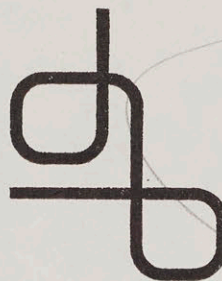
- "i) the refusal of a visa to enter a certain country, or fatal delays in granting visas;
- "ii) refusal of permission to participate in an appropriate scientific meeting organized by the ICSU family in the country of the scientist in question;
- "iii) refusal of permission to travel to scientific meetings organized by the ICSU family and held outside the country, and/or excessive payment required for the permission to travel out of the country to such meetings."

decided "to remind the affiliated Unions and other organs of ICSU of their obligation to bring all instances in which the free circulation of scientists has been restricted to the notice of the ICSU Standing Committee on the Free Circulation of Scientists."

The XIV General Assembly also noted about migration "that this problem does not fall within the mandate of the Standing Committee on the Free Circulation of Scientists;" and decided "to ask the Executive Board to study how ICSU should approach this new problem, namely the factual impossibility of migrating from a country, and to report to the 15 General Assembly."

LS:mn

NEWS BULLETIN



International Union
of
Pure and Applied Physics

74-10
November 15, 1974

EXECUTIVE COMMITTEE

The Executive Committee met in Madrid September 30 - October 1. The President, Professor H. Maier-Leibnitz, observed in his concluding remarks that it had been a year of continued progress for the Union characterized by activity and smoothness. In this issue of the News Bulletin some of the more important matters dealt with at the Madrid meeting will be reported on.

COMMISSION ON QUANTUM ELECTRONICS

At the General Assembly in 1972 a study group was set up to consider if an International Commission on Quantum Electronics should be established. The study group was chaired by Professor S.C. Brown (USA) and it has unani- mously recommended that a Commission be set up. Following the recommendation the Executive Committee in accordance with the statutes established a provisional Commission on Quantum Electronics. The decision will be submitted to the next General Assembly for ratification. As mem- bers of the Commission for the period until the General Assembly next year the Executive Committee named Professor B. Lax (USA), Professor A.M. Prokhorov (USSR), Professor J.C. Vienot (France), Professor B. Junge (DDR), and Professor K. Shimoda (Japan), with Professor Lax as its chairman until convened.

COMMISSION ON GENERAL RELATIVITY AND GRAVITATION

As members of the International Commission on General Relativity and Gravitation, which is an affiliated Commission, the Executive Committee named Professors V.L. Ginzburg (USSR), W. Fairbank (USA), A. Trautman (Poland), and M.A. Tonnelat (France). They will serve in this capacity until the next General Assembly.

COMMISSION ON MAGNETISM

Professor C.J. Gorter (Netherlands) has, as previously reported (NB 74-3) resigned as Vice-President in the Commission on Magnetism after having rendered his most valuable services to the Union in that capacity. As his successor for the remainder of the term the Executive Committee named Professor G. DeVries (Netherlands).

- CONFERENCE FEES ICSU has recommended that conference fees normally not exceed US \$ 30 and in no case should they exceed US \$ 50 (NB 74-2). The matter was considered by the Executive Committee. It was decided that organizers of international conferences seeking IUPAP sponsorship be urgently advised to keep the conference fees as low as possible. In no case should fees exceed US \$ 50 unless special provisions are made to assist young and unsupported scientists who may otherwise be prevented from participating for lack of adequate support.
- GENERAL REPORT-1973 The IUPAP General Report-1973 is now being distributed. Its printing has been very much delayed due to technical difficulties. It contains general information about the Union, a list of current officeholders, addresses etc. As long as the supply lasts additional copies can be obtained from the Associate Secretary-General.
- CONFERENCES 1974 The Union has sponsored 25 international conferences this year covering most fields of physics. Reports received so far indicate that they have all been successful endeavours furthering the cause of international cooperation. It was noted that in some cases requests for sponsorship arrived so late that the Executive was unable to act upon them. Conference organizers are reminded that requests should be sent to the appropriate Commission no later than April 1st the year preceding the conference year. It was further noted that for an increasing number of meetings special funds were made available to scientists from developing countries.
- CONFERENCES 1975 A preliminary list of conferences in 1975 sponsored by IUPAP has already been distributed as News Bulletin 74--9. A definite list will be sent out in December awaiting that additional information is obtained in cases where the Executive Committee deferred a final decision.
- CONFERENCE PROCEEDINGS It is of great importance to the physics community that conference proceedings can be readily obtained without undue delay once they are available. Since proceedings are published in many different forms and by sometimes little known publishing firms this is not always the case. Organizers of IUPAP conferences can help to improve the situation by sending information about the proceedings to the Associate Secretary-General for announcements in the News Bulletin. It will further be a routine feature to publish an annual list of conference proceedings in the bulletin.

ICSU
GENERAL
ASSEMBLY

ICSU - the International Council of Scientific Unions - held its 15th General Assembly in Istanbul September 23-26 this year. Following the elections the composition of the Executive Board is as follows.

President:	Prof. Harrison Brown (USA)
Vice President:	Prof. F. Bruno Straub (Hungary)
Secretary General:	Sir John Kendrew (UK)
Treasurer:	Prof. D.A. Bekoe (Ghana)
Past President:	Prof. J. Coulomb (France)
Members:	Prof. R. Hunsperger (Switzerland)
	Prof. C. de Jager (Netherlands)
	Prof. H. Maier-Leibnitz (BRD)
	Prof. J. Sahade (Argentina)

The IUPAP representative in the General Committee is Professor H. Maier-Leibnitz.

ICSU admitted as new National Members:
Conseil National de la Recherche Scientifique of Lebanon
National Council for Scientific Research of Sudan.

N.B. On the front page, first line of the third paragraph, the word 'commission' has accidentally replaced the word 'committee', and should read 'International Committee on General Relativity and Gravitation'.

JN/MB

B

COPY

Professor R.P. Ozerov
Chairman, Publishing Committee
1973 International Conference
on Magnetism
Karlov Physicochemical Institute
Academy of Sciences of the USSR
Moscow, U.S.S.R.

06-hbm/gs

Physics

January 29, 1974

Dear Professor Ozerov,

I would be grateful if you could enlighten me in any way as to how the Proceedings of above mentioned Conference can be available, particularly to people who did not attend the conference.

You may not have received my previous letter of November 27, 1973 on this matter. Therefore I enclose a copy for your information.

I am looking forward to hear from you.

Yours sincerely,

N. Bjerrum Møller

Secretary, International Union of
Pure and Applied Physics

Commission on Magnetism

Encl.

Dr. H. Bjerrum Møller.
Danish Atomic Energy Commission
Research Establishment, RISØ
DK-4000 Roskilde-Denmark

Indgået RISØ

11 MAR. 1974

FYSIK

Indgået RISØ

11 MAR. 1974

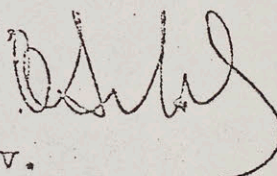
FYSIK

March 1, 1974

Dear dr. H. Bjerrum Møller,

I am very sorry to get your letter too late (because of the incorrect address) to do something for your colleague to purchase Proceedings of ICM-73: the account in the bank is already cancelled.

Sincerely yours,



Professor R.P. Ozerov.
Physical Department
Mendeleev Inst. Chem. Technology
Miuskay pl. 9
Moscow 125820 USSR.

UNIVERSITY of PENNSYLVANIA

PHILADELPHIA 19104

IUPAP

The College

DEPARTMENT OF PHYSICS

28 May 1974

Dr. Lewis Slack
American Institute of Physics
335 East 45th Street
New York, New York 10017

Dear Lew:

Thank you for sending the draft of your letter (to Kerwin) to me and to the other omitted members of the USNC-IUPAP, as I requested in my telephone call of 23 May. As I introduced the agenda item of the Russian violations of ICSU Resolutions on Free Circulation of Scientists, I welcome the opportunity of at least commenting on the consequent actions.

As I told you when you read me the draft, I consider the third paragraph to be inadequate. Eminent scientists, such as Mark Azbel, are denied the right to earn a livelihood, are faced with jail sentences for "parasitism", are denied access to libraries, are expunged from the scientific record, are harassed and persecuted, and finally are barred from an IUPAP meeting. All for a perfectly legal act, under Russian law. The act of requesting an exit visa, totally unconnected with their scientific activities, has brought retribution on them as scientists. This is so central to the issue of scientific freedom and so flagrantly violative of ICSU principles that our moral responsibility demands definitive action. It is not enough to refer to this only by implication. It is not enough to raise it second in a list, after visa problems. It is not enough to refer to it only in a single sentence. It is not enough to raise it apologetically, with reference first to the "independence of internal scientific planning of National Members" (Would a program of extermination of physicists by an anti-intellectual dictator also qualify as internal scientific planning?). It is just not enough in any way.

I recognize that we are U.S. representatives in an organization for international cooperation, a point which was stressed at the USNC meeting. But our primary

Dr. Lewis Slack
28 May 1974
Page 2

obligation is certainly to defend the statutory principles of IUPAP, as well as the commonly-held principles of universal science. If we are to mute all those principles in fear of offending the violators, then membership on such an organization is abhorrent to my morality.

Sincerely yours,

Herbert Callen
Member, USNC-IUPAP

HC:lr

cc: All members of USNC-IUPAP

Enc: Resolution adopted by AAAS, 1 March 1974
("Science", 26 April 1974, p. 495)

IUPAP



AMERICAN INSTITUTE OF PHYSICS

335 EAST 45 STREET, NEW YORK, NEW YORK 10017 • (212) 685-1940

LEWIS SLACK
Associate Director
for
General Activities

30 April 1974

Dr. D. Allan Bromley
Chairman
Department of Physics
Yale University
217 Prospect Street
New Haven, Connecticut 06520

Dear Al:

Try this for size. It seems to me that we need some sort of punch line at the end. I hold no particular brief for the one I've added, so feel free to change. I'll hold off sending it until I hear from you.

Sincerely yours,

A handwritten signature in cursive script, appearing to be "L. Slack".

Lewis Slack

LS:mn

cc: R. Y. Dow
H. W. Koch
V. F. Weisskopf ✓



AMERICAN INSTITUTE OF PHYSICS

335 EAST 45 STREET, NEW YORK, NEW YORK 10017 • (212) 685-1940

LEWIS SLACK
Associate Director
for
General Activities

DRAFT

Professor Larkin Kerwin
Secretary-General, IUPAP
Laval University
Quebec, P.Q., Canada

Dear Professor Kerwin:

The United States National Committee (USNC) of the International Union of Pure and Applied Physics (IUPAP) wishes to register its concern over repeated incidents that have occurred in conjunction with IUPAP sponsored international conferences in which the principles set forth in the Resolution of the XIVth General Assembly for ICSU in September 1972 on free circulation of scientists have been violated.

We first refer to difficulties in the granting of visas. We note that there have been instances in several member states where even though visas were eventually granted, they were granted so late that effective participation in the conference was precluded. On the other hand, we also note that in some instances requests for visas have arrived at such a late date that it has not been possible for the host country to issue the visa in time for effective participation.

Secondly, while the USNC-IUPAP is aware of the ICSU statement recognizing and respecting "the independence of the internal scientific planning of its National Members," we urge all host countries to facilitate and to insure full participation of all recognized scientists in the field of the conference.

We also wish to note that fundamental to the aims of IUPAP sponsorship of a conference is the importance of having significant parts of the conference proceedings be made available to the international community at large in a time interval brief enough to insure their usefulness. Of equal importance to rapid appearance of the proceedings is the availability of an adequate number of copies to fulfill the spirit of the ICSU criterion that they be "widely and easily available" to an audience well beyond those attending the conference.

Fulfillment of the spirit as well as of the letter of the rules and customs of IUPAP we believe ^{to be} is essential to the success of IUPAP conferences. Indeed, it is so essential that the likelihood of its coming about as a criterion for choosing sites for conferences could be an appropriate topic for open discussion.

Sincerely yours,

LS:mn

Lewis Slack, Secretary
USNC-IUPAP

U.S. National Committee for IUPAP

Meeting of April 24, 1974

Expected Attendance

Members:

Dr. D. Allan Bromley (Chairman)	
**Dr. Fay Ajzenberg-Selove	Dr. Melvin Gottlieb
Dr. Lewis M. Branscomb	Dr. W. W. Havens, Jr.
Dr. Harrison Brown	Dr. John N. Howard
Dr. Sanborn C. Brown	Dr. William C. Kelly
Dr. Solomon Buchsbaum	Dr. George T. Rado
Dr. Herbert B. Callen	*Dr. Frederick Seitz
Dr. E. Richard Cohen	Dr. Mary L. Shoaf
Dr. Richard K. Cook	Dr. Lewis Slack
Dr. Milan D. Fiske	Dr. Roman Smoluchowski
	Dr. Cecil J. Waddington
Dr. Robert Geballe	Dr. Victor F. Weisskopf
Dr. Edwin L. Goldwasser	Dr. C. N. Yang

Invited Participants:

Dr. George L. Rogosa (Ass't Director for Nuclear Science - AEC)
Dr. Rolf M. Sinclair (Division of Mathematical and Physical Sciences - NSF)
Dr. Henry J. Smith (Deputy Assoc. Admin. Science - NASA)
Mr. William H. Taft III (Bureau of Int'l Sci. and Tech. Affairs - Dept. of State)
Dr. William A. Wallenmeyer (Ass't Director for High Energy Physics - AEC)

NAS Staff:

Mr. Richard Y. Dow
Mr. Charles K. Reed
Mr. Edmund C. Rowan

Following Members have indicated they will not be able to attend because of other commitments:

Dr. Kenneth W. Ford	Dr. Walter H. Johnson, Jr.
Dr. Joseph L. Fowler	Dr. Evan O. Kane
Dr. Anthony P. French	Dr. Michael Tinkham
Dr. Ira Hirsch	

No response to date from following Members:

Dr. Henry Ehrenreich
Dr. A.W.K. Metzner
Dr. Simon Pasternack
Dr. Hugh C. Wolfe

*May have conflict and be unable to attend.
**Will join meeting after lunch.

April 23, 1974

DRAFT AGENDA

U.S. NATIONAL COMMITTEE FOR IUPAP
MEETING

Washington, D. C.
Sheraton Park Hotel
Madison Room
Wednesday, April 24, 1974
12:00 noon - 4:00 p.m.

- | | <u>Reference</u> |
|---|------------------|
| 1. Approval of Minutes of April 26, 1973 Meeting. | A |
| 2. XIV General Assembly of IUPAP: | |
| a) Financial Report | B |
| b) Report on Proceedings | C |
| c) Report on Audio-Cassette Album of Scientific Talks | D |
| 3. USNC-IUPAP Membership. | E |
| 4. IUPAP Executive Committee Meeting, Budapest, September 28-29, 1973. | |
| 5. Chinese Membership (Peking and Taiwan) in ICSU and IUPAP | |
| 6. APS Energy Study Committee. | |
| 7. Bi-lateral US(AEC)-USSR Program on Research | I |
| 8. XV General Assembly of IUPAP, Munich, FRG, 1975: | |
| a) U.S. Delegation | |
| b) IUPAP Commission Members | |
| c) IUPAP Dues | G |
| 9. IUPAP Conferences in the U. S. | H |
| a) Conference on Cosmic Rays, Denver, Colorado, August 17-30, 1973 (A) | |
| b) Conference on Magnetic Structures in Super-conductors, Argonne, Illinois, September 5-8, 1973 (C) | |
| c) Conference on Experimental Meson Spectroscopy, Northeastern University, Boston, Massachusetts, April 26-27, 1974 (?) | |
| d) IX International Conference on High Energy Accelerators, Stanford, California, May 2-7, 1974 (B) | |
| e) Conference on Reactions Between Complex Nuclei, Vanderbilt University, Nashville, Tennessee, June 17-21, 1974 (B) | |
| f) IX International Conference on the Physics of Electronic and Atomic Collisions (?) | |
| g) Second International Conference on Clustering Phenomena in Nuclei, University of Maryland, College Park, Maryland, March 1 - April 4, 1975 (?) | |
| h) Conference on Nuclear Cross Sections and Technology, Shoreham Hotel, Washington, D. C., March 3-5, 1975 (?) | |

- i) Conference on High Energy Physics and Nuclear Structure,
Santa Fe, New Mexico, June 1975 (?)
 - j) International Conference on the Interactions of Neutrons with
Nuclei, University of Lowell, Lowell, Massachusetts, July 6-9,
1976 (?)
- 10. IUPAP Conferences in Other Countries. H
 - 11. IAEA Multi-lateral Program on Exchange of Nuclear Physicists.
 - 12. Free Circulation of Scientists. F
 - 13. Other Business.

* * * * *

References:

- A. Minutes of April 26, 1973 Meeting (R. Y. Dow's Memorandum of
October 16, 1973).
- B. Financial Report of IUPAP XIV General Assembly.*
- C. Report on Proceedings, Physics 50 Years Later.*
- D. Report on Audio-Cassette Album of Scientific Talks Given at
XIV General Assembly of IUPAP.*
- E. USNC-IUPAP Membership List.
- F. ICSU Statutes and Resolutions on the Free Circulation of
Scientists (R. Y. Dow's Memorandum of October 16, 1973).
- G. IUPAP Memorandum of January 18, 1974 on Value of Union Share.
- H. IUPAP News Bulletins 74-1, 74-2 and 74-3 on 1974 and 1975 Conferences,
IUPAP Memorandum of January 14, 1974 on Activities of National
Committees, and IUPAP Memorandum of March 14, 1974 on Industrial
Physics.
- I. Agreement between USA and USSR on Scientific and Technical Cooperation
in the Field of Peaceful Uses of Atomic Energy.

*These reports will be distributed at the meeting.

U.S. National Committee for IUPAP

Reports for Meeting of
April 24, 1974

I. Financial Reports.

A. Report on expenditures for IUPAP XIV General Assembly (1 January 1972-31 March 1974).

Personal Services	\$17,465
Fringe Benefits	2,050
Travel	7,090
Communications & Shipping	1,678
Materials & Services	14,645
Amenities	23,287
Indirect Costs	<u>14,359</u>
Total	\$80,574

A detailed breakdown on receipts and costs for services and amenities was given in last year's report. Total funds received were \$100,020. In accordance with the recommendation of the USNC-IUPAP at the meeting last year, \$5,000 was returned to IUPAP. This leaves us a balance of about \$14,450 in the private fund account for support of future USNC-IUPAP activities; \$10,000 of this amount has been put into a long-term investment fund.

B. Support of Activities of USNC-IUPAP.

The activities of the USNC-IUPAP are now supported by NSF Task Order 40, which is administered by the Office of the Foreign Secretary. The international dues to IUPAP, which presently amount to \$5,400 per year, are paid from this Task Order. Support for NAS staff assistance for the USNC-IUPAP, for communications and materials, and for conducting meetings of the Committee, are provided under this Task Order also. Limited funds for support of U.S. delegates to the IUPAP General Assembly will also be provided under this Task Order.

II. Report on Proceedings of the XIV General Assembly of IUPAP (Physics 50 Years Later).

The scientific proceedings of the XIV General Assembly of IUPAP, Physics 50 Years Later, was issued in October 1973. Copies were sent to all members of the U.S. National Committee for IUPAP, Members of the IUPAP Executive Committee, Chairmen of National Committees for IUPAP, and to all participants of the XIV General Assembly of IUPAP. Reprints were also sent to the authors of the invited papers.

A copy of Physics 50 Years Later is being circulated to the authors for their signature; this autographed copy will be given to the AIP Niels Bohr Library. The book has been signed by all foreign authors and is now being routed to U.S. authors for their signature.

A total of 2,055 copies of Physics 50 Years Later were printed; of these, 500 were distributed as indicated above by the USNC-IUPAP, 576 were sold by the Academy's Printing and Publishing Office (5 copies were returned), and 37 complimentary copies were distributed by the PPO. This leaves 1,108 copies available for sale.

The Report of the Business Sessions of the XIV General Assembly has not been issued by IUPAP.

III. Report on Audio-Cassette Album of Scientific Talks.

Tape recordings of six of the scientific lectures given at the XIV General Assembly of IUPAP are being put in an audio-cassette album by the American Association for the Advancement of Science. Tapes have been edited and booklets with illustrations are being prepared. The completed album with booklet will be issued in about two months. Title of the album will be Physical World and it will be priced at about \$75. The lectures in this album will be:

1. The Crisis in Astronomy - Fred Hoyle
2. Optics - G. Toraldo di Francia
3. Solid-State Physics: Accomplishments and Future Prospects -
John Bardeen
4. Spectroscopy and Molecular Structure - Gerhard Herzberg
5. The Many Facets of the Nuclear Structure - Aage Bohr
6. Physics and Society - H.B.G. Casimir

IUPAP

NATIONAL RESEARCH COUNCIL

NATIONAL ACADEMY OF SCIENCES NATIONAL ACADEMY OF ENGINEERING

2101 CONSTITUTION AVENUE WASHINGTON, D.C. 20418

DIVISION OF PHYSICAL SCIENCES

April 5, 1974

MEMORANDUM

TO: Members of U.S. National Committee for IUPAP

FROM: Richard Y. Dow, Staff Officer, USNC-IUPAP

SUBJECT: Meeting, April 24, 1974: Additional Information

Please refer to the preliminary agenda enclosed with my memorandum of February 27, 1974. One additional agenda item, Chinese membership (Peking and Taiwan) in ICSU and IUPAP, has been suggested.

Information on the following additional IUPAP conferences in the United States, under agenda item 9, has been provided by USNC-IUPAP members and others:

- a. Second International Conference on Clustering Phenomena in Nuclei, University of Maryland, College Park, Maryland, March 1 - April 4, 1975.
- b. Conference on Nuclear Cross Sections and Technology, Shoreham Hotel, Washington, D. C., March 3-5, 1975 (see enclosed copy of Dr. Havens' letter of March 8, 1974 for more details).
- c. Conference on High Energy Physics and Nuclear Structure, Santa Fe, New Mexico, June 1975).
- d. International Conference on the Interactions of Neutrons with Nuclei, University of Lowell, Lowell, Massachusetts, July 6-9, 1976 (see enclosed proposal for conference).

IUPAP sponsorship is being sought for these conferences; endorsement by the USNC-IUPAP would be helpful in securing IUPAP sponsorship.

Also enclosed are additional references for agenda items:

- a. Agreement between USA and USSR on Scientific and Technical Co-operation in the Field of Peaceful Uses of Atomic Energy (item 6).
- b. IUPAP Newsletter 74-3 of March 15, 1974 (items 9 and 10).
- c. IUPAP Memo of March 14, 1974 on Industrial Physics (item 10) - Memo requests names of three U.S. physicists associated with Applied and Industrial Physics.

Please bring all reference material to the meeting. A revised agenda will be provided at the meeting.

IUPAP

NATIONAL RESEARCH COUNCIL

NATIONAL ACADEMY OF SCIENCES NATIONAL ACADEMY OF ENGINEERING

2101 CONSTITUTION AVENUE WASHINGTON, D.C. 20418

DIVISION OF PHYSICAL SCIENCES

February 27, 1974

MEMORANDUM

TO: Members of U.S. National Committee for IUPAP

FROM: Richard Y. Dow, Staff Officer, USNC-IUPAP

SUBJECT: Meeting, April 24, 1974, Washington, D. C.

The Chairman is convening a meeting of the U.S. National Committee for IUPAP on Wednesday, April 24, 1974, in the Madison Room of the Sheraton Park Hotel in Washington, D. C.. The session will start with luncheon at 12:00 noon. It is expected that adjournment will be between 3:00 - 4:00 p.m..

A preliminary agenda, an up-to-date membership list of USNC-IUPAP, and two recent IUPAP News Bulletins (74-1 and 74-2) are enclosed. Please bring these and other reference material, which has been previously distributed, to the meeting. Also enclosed is a self-addressed envelope and a form on which you can indicate your attendance plans, other agenda items, and information on plans for future international conferences in the United States for IUPAP Commissions of concern to you. An early reply would be appreciated so that we can make advance arrangements for the luncheon and meeting.

PRELIMINARY AGENDA

U.S. NATIONAL COMMITTEE FOR IUPAP
MEETING

Washington, D. C.
 Sheraton Park Hotel
 Madison Room
 Wednesday, April 24, 1974
 12:00 noon - 4:00 p.m.

- | | <u>Reference</u> |
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| 4. IUPAP Executive Committee Meeting, Budapest, September 28-29, 1973. | |
| 5. Free Circulation of Scientists. | F |
| 6. APS Energy Study Committee. | |
| 7. Bi-lateral US(AEC)-USSR Program on Research | |
| 8. XV General Assembly of IUPAP, Munich, FRG, 1975: | |
| a) U.S. Delegation | |
| b) IUPAP Commission Members | |
| c) IUPAP Dues | G |
| 9. IUPAP Conferences in the U. S. | H |
| a) Conference on Cosmic Rays, Denver, Colorado, August 17-30, 1973 (A) | |
| b) Conference on Magnetic Structures in Super-conductors, Argonne, Illinois, September 5-8, 1973 (C) | |
| c) Conference on Experimental Meson Spectroscopy, Northeastern University, Boston, Massachusetts, April 26-27, 1974 (?) | |
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| e) Conference on Reactions Between Complex Nuclei, Vanderbilt University, Nashville, Tennessee, June 1974 (B) | |
| f) IX International Conference on the Physics of Electronic and Atomic Collisions (?) | |
| 10. IUPAP Conferences in Other Countries. | H |
| 11. IAEA Multi-lateral Program on Exchange of Nuclear Physicists. | |
| 12. Other Business. | |

References:

- A. Minutes of April 26, 1973 Meeting (R. Y. Dow's Memorandum of October 16, 1973).
- B. Financial Report of IUPAP XIV General Assembly.*
- C. Report on Proceedings, Physics 50 Years Later.*
- D. Report on Audio-Cassette Album of Scientific Talks Given at XIV General Assembly of IUPAP.
- E. USNC-IUPAP Membership List.
- F. ICSU Statutes and Resolutions on the Free Circulation of Scientists (R. Y. Dow's Memorandum of October 16, 1973).
- G. IUPAP Memorandum of January 18, 1974 on Value of Union Share.
- H. IUPAP News Bulletins 74-1 and 74-2 on 1974 and 1975 Conferences, and IUPAP Memorandum of January 14, 1974 on Activities of National Committees.

*These reports will be distributed at the meeting.

February 14, 1974

MEMBERSHIP

U.S. NATIONAL COMMITTEE FOR THE INTERNATIONAL UNION
OF PURE AND APPLIED PHYSICS (USNC-IUPAP)

USNC-IUPAP Officers

Dr. D. Allan Bromley Chairman, Department of Physics Yale University 217 Prospect Street New Haven, Connecticut 06520	Chairman (-12/31/76)
Dr. Sanborn C. Brown Physics Department (Room 20A-125) Massachusetts Institute of Technology Cambridge, Massachusetts 02139	Vice-Chairman (-12/31/76)
Dr. Lewis Slack Associate Director American Institute of Physics 335 East 45th Street New York, N. Y. 10017	Secretary (-12/31/76)

Society Members

Dr. Richard K. Cook National Bureau of Standards Room A311, Building 226 Washington, D. C. 20234	Acoustical Society of America (-12/31/75)
Dr. Kenneth W. Ford Department of Physics University of Massachusetts Boston, Massachusetts 02116	American Association of Physics Teachers (-12/31/75)
Dr. Mary LaSalle Shoaf Deputy Secretary American Physical Society 335 East 45th Street New York, N. Y. 10017	American Physical Society (-12/31/76)
Dr. Frederick Seitz President The Rockefeller University New York, N. Y. 10021	American Physical Society (-12/31/74)
Dr. Lewis Slack Associate Director American Institute of Physics 335 East 45th Street New York, N. Y. 10017	American Institute of Physics (-12/31/75)

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College of Arts and Sciences (GN-15)
University of Washington
Seattle, Washington 98195

Dr. Solomon J. Buchsbaum (-12/31/75)
Executive Director
Research Communication
Principles Division
Bell Laboratories
Holmdel, New Jersey 07733

Dr. William W. Havens, Jr. (-12/31/75)
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335 East 45th Street
New York, N. Y. 10017

Dr. Milan D. Fiske (-12/31/74)
Research & Development Center
General Electric Company
P. O. Box 8
Schenectady, N. Y. 12301

Ex-Officio Voting Members

Dr. Roman Smoluchowski
Solid State & Materials Laboratory
The Engineering Quadrangle
Princeton University
Princeton, New Jersey 08540

Chairman, Division of Physical Sciences
National Research Council
(Indefinite)

IUPAP Officers

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Massachusetts Institute of Technology
Cambridge, Massachusetts 02139

IUPAP Vice President (-12/31/76)

IUPAP Commission Members

Dr. Fay Ajzenberg-Selove
Physics Department
University of Pennsylvania
Philadelphia, Pennsylvania 19104

Member, Nuclear Physics Commission
(-12/31/75)

Dr. Lewis M. Branscomb
IBM Corporation
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Chairman, Atomic & Molecular Physics
& Spectroscopy Commission
(-12/31/75)

Dr. Sanborn C. Brown
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Cambridge, Massachusetts 02139

Chairman, Plasma Physics Commission
(-12/31/75)

Dr. Herbert B. Callen
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Philadelphia, Pennsylvania 19174

Member, Commission on Thermodynamics
& Statistical Mechanics
(-12/31/75)

Dr. E. Richard Cohen North American Rockwell (Science Center) Box 1085 1049 Camino Dos Rios Thousand Oaks, California 91360	Chairman, Atomic Masses and Related Constants Commission (-12/31/75)
Dr. Henry Ehrenreich Department of Engineering and Applied Physics Harvard University Cambridge, Massachusetts 02138	Member, Solid State Commission (-12/31/75)
Dr. Joseph L. Fowler Director, Physics Division Oak Ridge National Laboratory P. O. Box X Oak Ridge, Tennessee 37830	Secretary, Nuclear Physics Commission (-12/31/75)
Dr. Anthony P. French Massachusetts Institute of Technology Room 20C-224 Cambridge, Massachusetts 02139	Member, Commission on Physics Education (-12/31/75)
Dr. Edwin L. Goldwasser Deputy Director National Accelerator Laboratory P. O. Box 500 Batavia, Illinois 60501	Member, Commission on Particles & Fields (-12/31/75)
Dr. Melvin Gottlieb Plasma Physics Laboratory P. O. Box 451 Princeton, New Jersey 08540	Member, Plasma Physics Commission (-12/31/75)
Dr. Ira J. Hirsh Research Department Central Institute for the Deaf 818 South Euclid Avenue St. Louis, Missouri 63110	Member, Acoustics Commission (-12/31/75)
Dr. Walter H. Johnson, Jr. School of Physics & Astronomy University of Minnesota Minneapolis, Minnesota 55455	Member, Atomic Masses and Related Constants Commission (-12/31/75)
Dr. Evan O. Kane Bell Laboratories 600 Mountain Avenue Murray Hill, New Jersey 07974	Member, Semiconductors Commission (-12/31/75)
Dr. William C. Kelly Director, Office of Scientific Personnel National Academy of Sciences 2101 Constitution Avenue, N. W. Washington, D. C. 20418	Chairman, Commission on Physics Education (-12/31/75)

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New York, N. Y. 10017

Member, Commission on Publications
(-12/31/75)

Dr. Simon Pasternack
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Chairman, Commission on Publications
(-12/31/75)

Dr. George T. Rado
Code 6450
Naval Research Laboratory
Washington, D. C. 20375

Chairman, Magnetism Commission
(-12/31/75)

Dr. Michael Tinkham
Physics Department
Harvard University
Cambridge, Massachusetts 02138

Member, Commission on Very Low
Temperature
(-12/31/75)

Dr. Cecil J. Waddington
School of Physics & Astronomy
University of Minnesota
Minneapolis, Minnesota 55455

Member, Commission on Cosmic Rays
(-12/31/75)

Dr. Hugh C. Wolfe
American Institute of Physics
335 E. 45th Street
New York, N. Y. 10017

Member, Commission on Symbols, Units
& Nomenclature
(-12/31/75)

Dr. C. N. Yang
Department of Physics
State University of New York
at Stony Brook
Stony Brook, L. I., N. Y. 11790

Chairman, Commission on Particles
& Fields
(-12/31/75)

Affiliated Commission Member

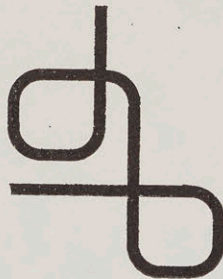
Dr. John N. Howard
Air Force Cambridge Research
Laboratories
Bedford, Massachusetts 01730

Chairman, USNC for the International
Commission for Optics
(-12/31/75)

Ex-Officio Non-Voting Member

Dr. Harrison Brown
Office of the Foreign Secretary
National Academy of Sciences
2101 Constitution Avenue, N. W.
Washington, D. C. 20418

Foreign Secretary, National Academy
of Sciences
(-6/30/74)



74-1
January 15, 1974

LIST OF IUPAP CONFERENCES IN 1974

This News Bulletin contains the complete list of international conferences to be organized in 1974 with the patronage of the Union.

It is recalled that IUPAP conferences are classified as A, B or C type conferences depending on size and scope. The three categories are defined as follows:

- A: General conferences designed to provide an overview of the entire field of interest to a Commission. Normally occurring at three-year intervals and with an attendance in the range 750-1500.
- B: Topical conferences concentrating on broad sub-fields in the area of a Commission's interest. Normally scheduled in the three years between type A conferences. Expected attendance in the range 300-600.
- C: Special conferences on more specialized topics than in the case of type B conferences. Normally held in the years between type A conferences. Anticipated attendance in the range 50-200.

JN/AC

INTERNATIONAL CONFERENCES APPROVED FOR 1974

5. COMMISSION ON VERY LOW TEMPERATURE

5.1 Conference on Liquid and Solid Helium

Haifa, Israel
July 1-4, 1974

Organizer: Prof. C.G. Kuper
Department of Physics
Technion, Haifa
"B" Israel

7. ACOUSTICS COMMISSION

7.1 Eighth International Congress on Acoustics

London, United Kingdom
July 23-31, 1974

Organizer: Prof. B.L. Clarkson
47 Belgrave Square
London SW1 X8QX
"A" England

8. SEMICONDUCTORS COMMISSION

8.1 12th International Conference on the Physics of Semiconductors

Stuttgart, BRD
July 15-19, 1974

Organizer: Dr. O.G. Folbert
IBM Deutschland GmbH, Entwicklung und Forschung
P.O. Box 210
D-7030 Stuttgart
"A" Federal Republic of Germany

10. SOLID STATE COMMISSION

10.1 5th International Symposium on Magnetic Resonance

Bombay, India
January 14-18, 1974

Organizer: Dr. D. Fiat
International Society of Magnetic Resonance
Weizmann Institute of Science
Rehovot
"B" Israel

Joint sponsorship with Magnetism Commission

10.2 X-Ray Processes in Matter

Helsinki, Finland
July 29 - August 1, 1974

Organizer: Dr. T. Åberg
Laboratory of Physics
Helsinki University of Technology
SF-02150 Otaniemi
"C" Finland

10.3 Color Centers in Ionic Crystals

Sendai, Japan
August 19-23, 1974

Organizer: Dr. M. Ueta
Department of Physics
Tohoku University
Katahira 2-Chome
Sendai
"B" Japan

10.4 3rd International Symposium on Surface Physics

Utrecht, Netherlands
June 26-28, 1974

Organizer: Dr. G.A. Bootsma
Van't Hoff Laboratorium
Rijks Universiteit Utrecht
Utrecht
"B" The Netherlands

10.5 4th International Conference on Crystal Growth

Tokyo, Japan
March 24-29, 1974

Organizer: Prof. R.R. Hasiguti
Faculty of Engineering
University of Tokyo
Bunkyo-ku
Tokyo
"B" Japan

11. COMMISSION ON PARTICLES AND FIELDS

11.1 IXth International Conference on High Energy Accelerators

Stanford, California, USA
May 2-7, 1974

Organizer: Prof. W.K.H. Panofsky
SLAC
P.O. Box 4349
Stanford, California 94305
"B" USA

11.2 XVIIth International Conference on High Energy Physics

London, United Kingdom
July 1-10, 1974

Organizer: Dr. G.H. Stafford
Rutherford High Energy Laboratory
Chilton, Didcot
Berkshire
"A" England

12. NUCLEAR PHYSICS COMMISSION

12.1 The Few Body Problem in Nuclear Physics

Québec, Canada
August 26-30, 1974

Organizer: Prof. R.J. Slobodrian
Université Laval
Département de Physique
Québec 10e
"B" Canada

12.2 Reactions between Complex Nuclei

Nashville, Tennessee, USA
June, 1974

Organizer: Dr. P.H. Stelson
Physics Division
Oak Ridge National Laboratory
P.O. Box X
Oak Ridge, Tennessee 37830
"B" USA

12.3 Gamma-Ray Transition Probabilities

Delhi, India
November, 1974

Organizer: Dr. Suresh C. Pancholi
Department of Physics and Astrophysics
University of Delhi
Delhi 7
India
"C"

15. ATOMIC AND MOLECULAR PHYSICS AND SPECTROSCOPY COMMISSION

15.1 IVth International Conference on Atomic Physics

Heidelberg, BRD
July 22-26, 1974

Organizer: Prof. G. zu Putlitz
Institut für Angewandte Physik I
der Universität Heidelberg
Albert-Überle-Strasse 3-5
D-69 Heidelberg
Germany
"A"

15.2 18th Congrès Ampère on Magnetic Resonance and Related Phenomena

Nottingham, England
September 9-14, 1974

Organizer: Prof. E.R. Andrew
Department of Physics
University of Nottingham
University Park
Nottingham NG7 2RD
England
"B"

15.3 IVth International Conference on Vacuum Ultraviolet Radiation Physics

Hamburg, BRD
July 22-26, 1974

Organizer: Prof. R. Haensel
II. Institut für Exp. Physik
2 Hamburg 50
Luruper Chaussee 149
Hamburg
Germany
"B"

16. PLASMA PHYSICS COMMISSION

16.1 2nd International Conference on Electrode Phenomena
in Discharges

Bucharest, Romania
May 13-15, 1974

Organizer: Dr. C. Popovici
State Committee for Nuclear Energy
Dept. of Plasma Physics
Physics Institute
Bd. Pacii 222
Bucharest
Romania

"C"

COMMITTEE ON GENERAL RELATIVITY AND GRAVITATION

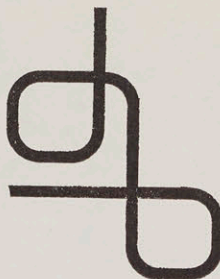
International Conference on General Relativity
and Gravitation

Tel Aviv, Israel
September, 1974

Organizer: Prof. N. Rosen
Department of Physics
Technion
Haifa
Israel

"A"

NEWS BULLETIN



International Union
of
Pure and Applied Physics

74-2
February 15, 1974

IUPAP EXECUTIVE COMMITTEE

The Executive Committee of the International Union of Pure and Applied Physics will next meet in Madrid, September 30 - October 1, 1974. Among matters to be considered at this meeting are the applications for IUPAP sponsorship for international conferences to be held in 1975.

ICSU GENERAL ASSEMBLY

The International Council of Scientific Unions will hold its next General Assembly in Istanbul, September 18-27, 1974. Various ICSU committees will meet in Ankara and Istanbul immediately before and after the General Assembly. The IUPAP representative in ICSU is Professor H. Maier-Leibnitz.

ICSU RESOLUTIONS

At the meeting with the General Committee of ICSU held in Leningrad, September 19-21, 1973 a number of important resolutions were passed. Among subjects dealt with in these resolutions are: Cooperation in Studies of Planetary Systems, Global Atmospheric Research Programme, Importance of Fundamental Research, and Coordination of Scientific Meetings. The full text of these resolutions may be obtained from the Associate Secretary-General's office.

REGISTRATION FEES FOR CONFERENCES

At the meeting with the ICSU General Committee it was further recommended that for international symposia, congresses and other meetings sponsored by members of the ICSU family the registration fee, that is the right to attend the meeting, should not normally exceed US \$ 30 and under no circumstances should it exceed US \$ 50. This recommendation should be kept in mind by future conference organizers applying for IUPAP sponsorship.

BACK COPIES OF SOME JOURNALS

The International Union of Crystallography has made available information that back copies of Acta Crystallographica and Journal of Applied Crystallography may be purchased at reduced rates from Munksgaard International Publishers, 35 Nørre Søgade, DK-1370 Copenhagen, Denmark.

AWARD IN
THERMODYNAMICS
OR STATISTICAL
MECHANICS

The Thermodynamics and Statistical Mechanics Commission has decided to institute an award for outstanding achievement in research in thermodynamics or statistical mechanics. The award is to be a gold medal, and it will be called the Boltzmann Medal. One award is to be made at each International Conference on Thermodynamics and Statistical Mechanics starting in 1975.

COMMISSION
ON PHYSICS
EDUCATION

The IUPAP Commission on Physics Education met in Paris last March under the chairmanship of Professor W.C. Kelly. From the minutes it appears to have been a very successful meeting in which a vigorous program for future activities was outlined. Particular emphasis was placed on activities relating to developing nations. These plans will be presented more fully in a forthcoming special issue of the News Bulletin devoted to IUPAP and the developing countries. Among other subjects dealt with at this meeting one may mention: Conference on Teaching Physics for Related sciences and Professions (1975), Conference on Physics and Mathematics (to promote better ways to incorporate modern mathematics in the teaching of university physics), Topical Conference on Examinations and Testing (particularly with reference to developing countries), Conference on Computers in Physics Teaching, Physics Education for Economic Development (in cooperation with the Organisation of American States), Congress on Physics Education in 1975, and a Newsletter on Physics Education. Additional information may be obtained from the Secretary of the Commission, Professor John L. Lewis, Malvern College, Worcestershire, United Kingdom.

CONFERENCES
IN 1975

Organizers of international conferences to be held in 1975 wishing to apply for IUPAP sponsorship are reminded that they should submit their applications to the appropriate Commissions as soon as possible.

USNC-IUPAP - April 24, 1974

Sheraton Park Hotel
Washington, D. C.

CHECK ONE:

- _____ I will join the Committee for lunch.
_____ I will join the Committee after lunch.
_____ I will not be able to attend.

Proposed Agenda Items:

Proposed International Conferences in U. S. (1974-1975):

<u>Dates</u>	<u>IUPAP Commission</u>	<u>Title of Conference</u>
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(Signature)

IUPAP

NATIONAL RESEARCH COUNCIL

NATIONAL ACADEMY OF SCIENCES NATIONAL ACADEMY OF ENGINEERING

2101 CONSTITUTION AVENUE WASHINGTON, D.C. 20418

DIVISION OF PHYSICAL SCIENCES

D R A F T

Professor Larkin Kerwin
Secretary-General, IUPAP
Laval University
Quebec, P.Q., Canada

Dear Professor Kerwin:

The United States National Committee (USNC) of the International Union of Pure and Applied Physics (IUPAP) wishes to register its concern over reports of several incidents that have occurred in conjunction with IUPAP sponsored international conferences in which the principles set forth in the Resolution of the XIVth General Assembly for ICSU in September 1972 on free circulation of scientists have been violated.

We first refer to difficulties in the granting of visas. We note that there have been instances in several host countries where even though visas were eventually granted, they were granted so late that effective participation in the conference was precluded, equivalent to denial of the visa. On the other hand, we also note that in some instances requests for visas have arrived at such a late date that it has not been possible for the host country to issue the visa in time for effective participation.

Secondly, while the USNC-IUPAP is aware of the ICSU statement recognizing and respecting "the independence of the internal scientific planning of its National Members," we urge all host countries to facilitate and to insure full participation of all recognized scientists in the field of the conference.

We also wish to emphasize that fundamental to the aims of IUPAP sponsorship of a conference is the importance of having significant parts of the conference proceedings be made available to the international community at large in a time interval brief enough to insure their usefulness. Of equal importance to rapid appearance of the proceedings is the availability of an adequate number of copies to fulfill the spirit of the IUPAP criterion that they be "widely and easily available" to an audience well beyond those attending the conference.

We believe fulfillment of the spirit as well as of the letter of the rules and customs of IUPAP to be essential to the success of IUPAP conferences. Indeed, it is so essential that the likelihood of its coming about as a criterion for choosing sites for conferences could be an appropriate topic for open discussion.

Sincerely yours,

Lewis Slack, Secretary
USNC-IUPAP

LS:mn

Statement of Members of USNC-IUPAP

We, members of USNC-IUPAP, deplore the violations of ICSU statutes by the Soviet Union in the cases of Mark Azbel, Alexander Voronel, and numerous other physicists. These scientists, having committed and having been charged with no violations of Soviet law, are nevertheless denied their fundamental right to function as scientists, to associate with scientific activities and organizations, and specifically were prevented from participating in the IUPAP-sponsored International Conference on Magnetism held in Moscow, August 22 - 28, 1973.

We note the Amendment to the Statutes of ICSU, adopted September 1972, which

"affirm(s) the rights of scientists throughout the world to adhere to or to associate with international scientific activity without regard to race, religion, political philosophy, ethnic origin, citizenship, language or sex."

We note the Resolution on Free Circulation of Scientists adopted at the XIVth General Assembly of ICSU, which

"Observes, however, with regret, that scientists are still sometimes not allowed freely to attend the appropriate scientific meetings organized by the ICSU family either abroad or in their home countries"

and continues, therefore, to

"Decides to remind the affiliated Unions and other organs of ICSU of their obligation to bring all instances in which the free circulation of scientists has been restricted to the notice of the ICSU Standing Committee on the Free Circulation of Scientists".

In discharge of this mandated obligation we request that such notice be given to the ICSU Standing Committee on the Free Circulation of Scientists, and that our representatives on the International Executive Committees of IUPAP and of ICSU be instructed appropriately to raise the issue of the Soviet Union's violations of ICSU Statutes on Free Circulation of Scientists.

UNIVERSITY of PENNSYLVANIA

PHILADELPHIA 19104

The College

DEPARTMENT OF PHYSICS

To: Members of USNC-IUPAP

From: Herbert Callen

Date: 1 June 1974

Following our discussion, at our April meeting, of Russian violations of ICSU and IUPAP regulations, a group of our officers met to draft a letter to Secretary-General Kerwin expressing the concern of our Committee. I am gratified by this initiative, as further action by USNC was left inconclusive at our April meeting. Specifically, I believe that the draft letter required some alterations, as I explained in my response, a copy of which was sent to you. To assess the opinions of the members of USNC I therefore invite you to endorse the following statement, to be sent to our Chairman, Allan Bromley. I enclose a post card, addressed to me, on which I would appreciate your endorsement, or non-endorsement, of this statement - comments in detail would also be welcome, of course.

HC:lr

Enc.

INTERNATIONAL COUNCIL OF SCIENTIFIC UNIONS

CONSEIL INTERNATIONAL DES UNIONS SCIENTIFIQUES

SECRETARIAT :
51, BOULEVARD DE MONTMORENCY
75016 PARIS, FRANCE

PRESIDENT : PROF. J. COULOMB (FRANCE)
SECRETARY GENERAL : PROF. F. A. STAPLEU (NETHERLANDS)
TREASURER : PROF. N. B. CACCIAPUOTI (ITALY)

15 July 1974

FROM : Prof. J. Coulomb, President
Prof. N. B. Cacciapuoti, Treasurer
Prof. T. F. Malone, Chairman of the Standing Finance
Committee

TO : ICSU National Members
Members of the General Committee
Presidents and Secretaries General of Unions, Scientific
and Special Committees, and Inter-Union Commissions and
Permanent Services

URGENT

At the May meeting of the Executive Board in Paris, the Standing Finance Committee reported on the ICSU financial situation, both current and prospective. The Executive Board directed the President, Treasurer, and Chairman of the Standing Finance Committee to communicate to members of the ICSU family the concern that the Standing Finance Committee brought to the attention of the Executive Board. While no crisis exists at the moment, it is unmistakably clear that we are headed toward a period of financial difficulty which can be alleviated only if prudent and imaginative action is taken well in advance of these difficulties.

During the past four years, the financial situation of ICSU has undergone a dramatic transformation from an alarming state of deterioration to gradual progress toward financial viability. The deterioration was due, in large measure, to an attempt by ICSU to respond to rapidly expanding needs of international scientific activity. The progress toward financial integrity was accomplished, for the most part, by the exercise of unrelenting austerity during a period when the legitimate demands of support for scientific activities of constituent bodies of ICSU have been mounting inexorably. This situation may be illustrated by a simple tabulation of the deficit (-) or surplus (+) of ICSU income over expenditure as follows:

(In Thousands of US\$)

1970	1971	1972	1973	1974
-92	-76	40	70	75

As a point of interest, it may be noted that during the three year period 1970-73, the Consumer Price Index for France, as published in Main Economic Indicators, O.E.C.D., May 1974 -- which is probably as good a measure of world-wide price level change as is readily available -- rose by 21 percent. Current indicators show that a further increase of something like 13 percent will take place between 1973 and 1974.

An important factor in restoring financial health to ICSU was the dues increase of 40 percent voted on in 1972 to become effective in 1974. The response from National Members has been most gratifying. Had there been no significant increases in price changes anticipated after 1974, the financial outlook would have been favorable and an opportunity would have been present to increase the level of international scientific activities in keeping with their growing importance in world affairs.

Unfortunately, price levels have risen steadily over the past four years, and throughout most of the world are now running at the rate of 10 to 15 percent per year -- with even this range being exceeded in many countries. Moreover, the outlook for 1975 and 1976 is not at all reassuring with price increases of 10-20 percent per annum foreseeable for the near future. It is clear that once again the financial capability of ICSU to respond to international needs over the years ahead may be in serious jeopardy.

Moreover, one should not conclude from the surpluses of 1972-74 that we can utilize this excess of income over expenditures to counter inflation. Working capital has fallen to a dangerously low level and it is now just barely adequate to meet operational needs. Large swings in operating results are incompatible with the expanding needs of international science.

Several options are open :

1. It would be possible to take no action to compensate for the rapid erosion in the purchasing power of ICSU income and simply to adjust downward the support for ICSU activities as may be required to maintain solvency of ICSU. Sooner or later, however, a large increase in dues would be required if ICSU is to remain viable as an international organization.
2. The General Assembly could authorize for 1 January 1976 a dues increase of 20-30 percent which would permit stabilization of scientific activities.
3. The General Assembly could authorize the General Committee upon the recommendation of the Executive Board and Standing Finance Committee to make annual increases not to exceed 10 percent per annum if this appears to be necessary to maintain a constant level of scientific activity.

4. The General Assembly could approve a dues structure which would be tied to the Consumer Price Index for France as published by O.E.C.D. This would insure that large increments in dues, of the kind sustained in 1974, would be replaced by small annual increases. Dues increases would be automatic and based on the October to October increase in the price index reported by O.E.C.D. Thus, on each 1 January a new due would be announced to take effect a year later. For example, if the price change from October 1974 to 1975 was 8 percent, the dues for 1977 would be increased by 8 percent.

We recommend serious attention, thought, and consultation within the constituent bodies of ICSU, between now and the General Assembly, so that there may be a meaningful debate in Turkey on this matter. In the meantime, we would like to commend the fourth option as a long-term method of coping with the vexatious problem of changing price levels.



AMERICAN INSTITUTE OF PHYSICS

335 EAST 45 STREET, NEW YORK, NEW YORK 10017 • (212) 685-1940

LEWIS SLACK
*Associate Director
for
General Activities*

20 June 1974

Dr. Victor F. Weisskopf
Department of Physics
Massachusetts Institute of Technology
Cambridge, Massachusetts 02139

Dear Viki:

This is to be somewhat more specific about causes of the concern expressed in my 20 June 1974 letter to Kerwin on behalf of the USNC-IUPAP.

There are two incidents of difficulties in obtaining visas for travel to conferences sponsored by IUPAP, both sponsored by the International Commission on Magnetism (ICM).

The most recent concerns the travel of Israeli scientists to Moscow. As you know, the visas were issued so late as to preclude effective participation in the conference by at least some of the members. Kerwin's letter in the December issue of Physics Today (attached) shows that the case has been reported.

In the earlier case, it had appeared at the time of the ICM Conference in Grenoble that two Russians had not received French visas. Investigation showed that indeed the authorization for the visas had been wired to Moscow on 2 September, well before the conference; the passports were not picked up until 30 September well after the conference. This problem seems to have resulted from some sort of bureaucratic goof.

A more recent, third incident, not connected with a IUPAP conference, the U. S. bureaucratic machinery apparently was unable to produce a visa for a Hungarian who, six weeks in advance, had applied for a visa to a conference at the University of Pennsylvania. After receiving a wire from the scientist five days in advance of the conference, one of the conference organizers was able to get the visa issued and the man did come.

All these emphasize that more attention to minimizing difficulties about visas and travel is required.

The other concern of the Committee noted in the letter was about the proceedings of conferences. In particular, there is little or no evidence that any provisions were made for people other than conferees

Member Societies:

American Physical Society • Optical Society of America • Acoustical Society of America • Society of Rheology • American Association of Physics Teachers • American Crystallographic Association • American Astronomical Society • American Association of Physicists in Medicine

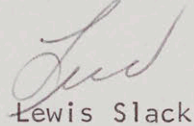
20 June 1974

to obtain copies of the proceedings of the ICM conference in Moscow last year. Indeed the procedure outlined in the announcements provided only for orders by participants; furthermore, repeated inquiries by the Commission secretary to the chairman of its publishing committee elicited only the astonishing negative response attached. Such procedures clearly are at variance with proceedings being freely and easily available.

The Committee felt strongly that instances like this must be avoided in the future and insuring their avoidance should be considered in choosing future conference sites by IUPAP.

Call upon me if you have any further questions.

Yours sincerely,



Lewis Slack

LS:mn
Enclosures

cc: Professor Larkin Kerwin
USNC-IUPAP

NATIONAL RESEARCH COUNCIL

NATIONAL ACADEMY OF SCIENCES NATIONAL ACADEMY OF ENGINEERING

2101 CONSTITUTION AVENUE WASHINGTON, D.C. 20418

DIVISION OF PHYSICAL SCIENCES

Address reply to:
American Institute of Physics
335 East 45th Street
New York, N.Y. 10017

20 June 1974

Professor Larkin Kerwin
Secretary-General, IUPAP
Laval University
Quebec, P.Q., Canada

Dear Professor Kerwin:

The United States National Committee (USNC) of the International Union of Pure and Applied Physics (IUPAP) wishes to register its concern over increasing reports of incidents that have occurred in conjunction with IUPAP sponsored international conferences in which the principles set forth in the Resolution of the XIVth General Assembly for ICSU in September 1972 on free circulation of scientists appear to have been violated.

We first refer to difficulties in the granting of visas. In some instances requests for visas have arrived at such a late date that it has not been possible for the host country to issue the visa in time for effective participation. It is of course the responsibility of the applicant to submit the application for a visa in adequate time. On the other hand we note that there have been instances in several host countries where visas have not been issued promptly and although visas were eventually granted, they were granted so late that effective participation in the Conference was precluded, equivalent to denial of the visa.

Secondly, while the USNC-IUPAP is aware of the ICSU statement recognizing and respecting "the independence of the internal scientific planning of its National Members," we interpret this statement to refer to purely internal scientific affairs and not to international meetings -- such as those sponsored by IUPAP -- held in a particular country. Therefore, we urge all host countries which share responsibility with IUPAP for sponsorship of international meetings not to discriminate on political grounds against the participation of otherwise qualified scientists resident in the host country. We invite the attention of ICSU's Committee on Free Circulation to this problem which, while not a matter of "visas" or "exit permits" would clearly seem to relate to the "Free Circulation of Scientists" in the sense of attendance at an international meeting.

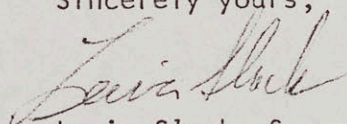
We also wish to emphasize that fundamental to the aims of IUPAP sponsorship of a conference is the availability of significant parts of the conference proceedings to the international community at large in a time interval brief enough to insure their usefulness. Of equal importance to rapid appearance is the availability of an adequate number of

20 June 1974

these proceedings to fulfill the spirit of the IUPAP criterion that they be "widely and easily available" to an audience of scientists well beyond those attending the conference.

We believe fulfillment of the spirit as well as the letter of the rules and customs of IUPAP to be essential to the success of IUPAP conferences. Indeed, we consider it is so essential that we recommend that the leadership of IUPAP in deciding on the location of future meetings under IUPAP aegis take into account -- along with other relevant factors -- a full understanding of recent experience relating to obstacles to full attendance at meetings in various countries concerned.

Sincerely yours,



Lewis Slack, Secretary
USNC-IUPAP

LS:mn

cc: USNC-IUPAP

UNION INTERNATIONALE de PHYSIQUE PURE et APPLIQUÉE

INTERNATIONAL UNION of PURE and APPLIED PHYSICS

5/11/74

cc: D.A. Bromley
R.Y. Dow
E.C. Rowan
V.F. Weisskopf

Secrétaire-général:

Prof. L. KERWIN
Bureau du Recteur
Université Laval
Québec, P.Q., CANADA
G1K 7P4
Téléphone: 418-656-2131

Associate Secretary-General:

Prof. J.S. NILSSON
Inst. of Theoretical Physics
Fack
S-402 20 Göteborg 5, SWEDEN.
Telephone: 031/810100

Québec, July 30th, 1974.

Dr. Lewis Slack,
Secretary - USNC,
American Institute of Physics,
335 East, 45th Street,
New York, N.Y. 10017, USA.

RECEIVED
AUG 5 1974
L SLACK

Dear Dr. Slack:

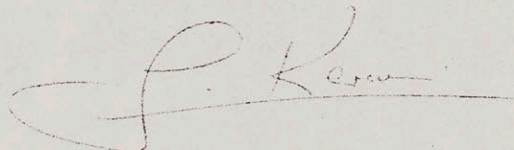
Thank you for your comments of June 28th concerning
visa problems and internal circulation problems which have arisen at
international conferences.

Since you have received the Union documents on the
subject, you will know that the Union is in agreement with your views.

In particular, the Executive Committee of IUPAP is to
receive a report from Vice-President Vul of the USSR on the circumstances
attending the Magnetism Conference in Moscow last summer.

One of our problems is that many complains are made
in a general way and insufficient specific cases are mentioned. That we
were able to get precise facts on the Magnetism Conference enabled us to
push far for a report from Prof. Vul. All of our Commissions have been
repeatedly advised of our policy and requested to keep us informed of
transgressions.

Yours sincerely,



Larkin Kerwin

c.c.: Prof. Nilsson

LK:cgb

- 10.1 5TH INTERNATIONAL SYMPOSIUM ON MAGNETIC RESONANCE
Bombay, India January 14-18, 1974
Contributed
papers: Journal of Magnetic resonance
Invited
papers: Pure and Applied Chemistry (special volume)
Publisher: Butterworths, UK
- 10.3 COLOR CENTERS IN IONIC CRYSTALS
Sendai, Japan August 19-23, 1974
No conference proceedings will be published.
- 11.1 IXTH INTERNATIONAL CONFERENCE ON HIGH ENERGY ACCELERATORS
Stanford, Calif., USA May 2-7, 1974
Proceedings: Proceedings of the IXth International Conference
on High Energy Accelerators
Publisher: National Technical Information Service
US Department of Commerce
5285 Port Royal Road
Springfield, Virginia 22151, USA
Publ. date: October, 1974
Price: US \$ 13.60
Others \$ 16.10
- 11.2 XVIIITH INTERNATIONAL CONFERENCE ON HIGH ENERGY PHYSICS
London, UK July 1-10, 1974
Proceedings: Proceedings of the XVIIth International Conference
on High Energy Physics
Publisher: The Librarian
Rutherford Laboratory
Chilton, Didcot, Oxon OX11 0QX
United Kingdom
Price: £ 6 (surface mail)
- 12.1 THE FEW BODY PROBLEM IN NUCLEAR PHYSICS
Québec, Canada August 26-30, 1974
Proceedings: Proceedings of the International Conference on the
Few Body Problem in Nuclear Physics
Publisher: Les Presses de l'Université Laval, Québec, Canada
Publ. date: May, 1975
Price: approx. Can. \$ 30.00
- 12.2 REACTION BETWEEN COMPLEX NUCLEI
Nashville, Tennessee, USA June 10-14, 1974
Proceedings: Proceedings of the International Conference on
Reactions between Complex Nuclei, Vol. 1 and 2
Editors: R.L. Robinson, F.K. McGowan, J.B. Ball and J.H. Hamilton
Publisher: North Holland Publishing Company, Amsterdam
Publ. date: 1974
Price: vol.1 US \$ 16.95
vol.2 US \$ 49.95
volumes
1 and 2 US \$ 59.95

12.3 GAMMA RAY TRANSITIONS PROBABILITIES

Delhi, India

November 11-15, 1974

Proceedings: Proceedings from the International Conference
on Gamma Ray Transition Probabilities

Publisher: The University of Delhi Press

Publ. date: June, 1975

Price: -

15.1 IVTH INTERNATIONAL CONFERENCE ON ATOMIC PHYSICS

Heidelberg, BRD

July 22-26, 1974

Proceedings: Atomic Physics 4

Editors: G. zu Putlitz, E.W. Weber, and A. Winnacker

Publisher: Plenum Press, New York

Publ. date: January, 1975

Price: approx. US \$ 20.00

INTERNATIONAL CONFERENCE ON GENERAL RELATIVITY AND GRAVITATION

Tel Aviv, Israel

June, 1974

Proceedings: Proceedings of the International Conference on
General Relativity and Gravitation (GR 7)

Publisher: Keter Publishing Company, Jerusalem

Publ. date: June, 1975

Price: -

NATIONAL ACCELERATOR LABORATORY

C. H. Goldberger 9/25
86
P.O. BOX 500
BATAVIA, ILLINOIS 60510
TELEPHONE 312-840-3000
DIRECTORS OFFICE

September 12, 1974

IUPAP

Professor Chen-Ning Yang
Department of Physics
State University of New York
Stony Brook, L.I., New York 11790

Dear Frank:

You are aware, from our conversations prior to the IUPAP National Committee meeting in Washington and prior to the IUPAP Commission on Particles and Fields meeting in London, that I am very much concerned about USSR violations of a spirit of free expression in science and free exchange of ideas and of scientists. In spite of my concern (or, perhaps, because of it) I do not believe that IUPAP should overstep its statutory authority and I would not wish to jeopardize the significant gains that have been made over the past decades by pressing too hard on some of these matters. In short, I would not wish to throw out the baby with the bathwater. Although the "AGV" incident at the magnetism conference is not a trivial matter, it is one that, in my view, cannot be used as a "cause celebre", because it is statutorily not a tight case.

To me, the violations of the spirit of free exchange inherent in the failure of the USSR to send Okun or Gribov as invited speakers to the NAL conference in 1972, and their failure, again, to send Gribov as an invited speaker to the London Conference in 1974, constitute much more serious violations of the spirit of IUPAP. We have no right to interfere in the internal procedures of the Soviet scientific community by dictating which scientists they should nominate to participate in a conference and which they should not. On the other hand, every conference host has the right to invite whatever qualified scientists he wants, and he even has a responsibility to invite outstanding scientists whom he wishes to give talks or to organize sessions at his conference. In the case of the 1972 conference, I purposely adopted the practice of paying all expenses for all invited speakers and session organizers, so there could be no economic excuse used for the invited speakers not to have been permitted to attend. It seems to me that if some nation is going to prevent such invitees from participating, it should have to give some very good reason for doing so.

Beyond the problem of invited speakers there is also the general question of meeting deadlines with regard to the submission of lists of nominees for participation. In the past two conferences,

deadlines have been set in a normal cycle and ample advance notice was circulated to all potential participating countries. All but the Eastern European nations were able to come reasonably close to meeting those deadlines. Lists of USSR nominees, to the contrary, were not made available until months after the deadline, in some cases within less than a month and even within a few days of the time of the conference itself.

Finally, contributions to conferences from Russian participants never meet the deadlines that are imposed and met by other conference participants. For the XVIth and XVIIth International conferences, the idea of an organizing session, the week before the conference, has been tried out. Even for those organizing sessions, the contributions from the Soviet Union have not been available. They often are produced, for the first time, when the Russian delegation arrives, only a day before the start of the conference.

In consideration of all of these violations of the general spirit of free exchange among scientists, I am sympathetic to the kind of protest that has been voiced by Murph Goldberger in his recent letter to you. However, I believe it is unwise to impose a penalty on the Soviet Union without first clearly setting standards of procedure which we expect them to meet and giving them an opportunity to meet them. Therefore I should like to make a substitute suggestion.

We have a conference on electromagnetism and high energy lepton interactions scheduled for SLAC this coming summer. I would like to try to get the approval of the un-assembled Commission members to impose the following requirements on all participants in that conference.

1. The selection of invited speakers and session organizers is the sole responsibility of the conference host. No scientist, so selected, should be precluded from participation in the conference by action within his own country.
2. Deadlines for submission of lists of nominees and for submission of scientific contributions must be observed by all participants.

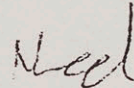
Any national group which fails to meet these requirements should be excluded from consideration as a host to subsequent IUPAP conferences until its failure to meet such requirements has been demonstrably remedied.

The purpose of this scheme, obviously, would be to use the desirable prestige of hosting conferences as a lever to

influence nations to conform to reasonable standards of behavior in their participation. Whether or not the 1976 conference should, itself, be "put on the line" is a more detailed question that could be faced by the Commission at our SLAC meeting.

I have discussed this suggestion with Pief, Sid Drell and Joe Ballam. Pief is concerned that the people who must be influenced are politicians and bureaucrats whereas the only people on whom our leverage will be effective are the scientists who might already be sympathetic to our desires. I, personally, believe that to be a luxurious position in which we have languished long enough. The time has come to try something else.

Sincerely,



Edwin L. Goldwasser

cc: Allan Bromley, Yale
W.K.H. Panofsky, SLAC
Sidney Drell, SLAC
Joseph Ballam, SLAC

14PAP

May 21, 1974

Dr. Larwin Kerwin
Bureau du Recteur
Universite Laval
Quebec, P.Q., CANADA

Dear Larwin:

I certainly am looking forward greatly to the Madrid meeting. I intend to come to Madrid the evening before the meeting starts and I would like your secretary to reserve a room for me at the Ritz which is the hotel I believe Maier-Leibnitz plans to stay. I will probably stay one extra day after the meeting to do some sight-seeing.

With best regards,

Sincerely yours,

V. F. Weisskopf

VFW:dle

UNION INTERNATIONALE de PHYSIQUE PURE et APPLIQUÉE

INTERNATIONAL UNION of PURE and APPLIED PHYSICS

Secrétaire-général:

Prof. L. KERWIN
Bureau du Recteur
Université Laval
Quebec, P.Q., CANADA
G1K 7P4
Téléphone: 418-656-2131

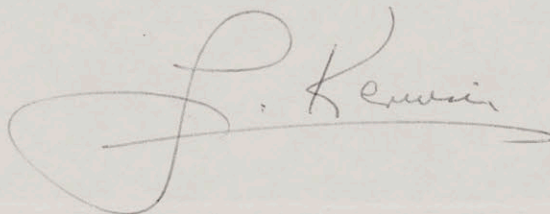
Associate Secretary-General:

Prof. J.S. NILSSON
Inst. of Theoretical Physics
Fack
S-402 20 Göteborg 5, SWEDEN.
Telephone: 031/810100

MEMO to members of the Executive Committee of IUPAP

from Secretary-General

-
- a) it appears that we shall have full attendance at the Madrid meeting, which is most satisfactory.
Any members who have not yet sent me their proposed dates of arrival and departure are requested to do so.
 - b) I am requesting Prof. Bru to reserve rooms for the appropriate dates.
 - c) I enclose a preliminary draft of a proposed agenda. Please inform me of any items which you would like to have added.



Québec, May 2nd, 1974.

UNION INTERNATIONALE de PHYSIQUE PURE et APPLIQUÉE

INTERNATIONAL UNION of PURE and APPLIED PHYSICS

Secrétaire-général:

Prof. L. KERWIN
Bureau du Recteur
Université Laval
Québec, P.Q., CANADA
G1K 7P4
Téléphone: 418-656-2131

Associate Secretary-General:

Prof. J.S. NILSSON
Inst. of Theoretical Physics
Fack
S-402 20 Göteborg 5, SWEDEN.
Telephone: 031/810100

MEMO to Presidents and Secretaries of International Commissions

from Secretary-General of IUPAP

object: international conferences proposed for 1975

Organizers of international conferences for 1975 were reminded (IUPAP News-Bulletin, November 20, 1973) that their requests for sponsorship should be forwarded to the Secretaries of appropriate commissions by April 1st. This reminder was repeated in the News-Bulletin of February 15, 1974.

I hope that you have these documents in hand so that you may obtain the views of your Commission and advise the Associate Secretary-General, Dr. Nilsson, as soon as possible. July 15th would be the limiting date.

For 1974, several commissions have passed along requests for sponsorship and grants received late. This is most unsatisfactory as:

- : a) it is very difficult to obtain the view of the Executive Committee by mail;
- : b) Executive Committee members are reluctant to assess requests without having the overall picture of the entire year's program under discussion at the same time.

I would be grateful if you would impress this on conference organizers.

Québec, May 2nd, 1974.

UNION INTERNATIONALE de PHYSIQUE PURE et APPLIQUÉE

INTERNATIONAL UNION of PURE and APPLIED PHYSICS

Secrétaire-général:

Prof. L. KERWIN
Bureau du Recteur
Université Laval
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Inst. of Theoretical Physics
Fack
S-402 20 Göteborg 5, SWEDEN.
Telephone: 031/810100

DRAFT

Proposed agenda for IUPAP Executive meeting
Madrid - September 1974

-
1. Opening remarks by host and President Maier-Leibnitz
 2. Approval of agenda
 3. Minutes of the Budapest Executive meeting (September 1973)
 4. Business arising from the Minutes:
 - a) increase in shares for the Soviet Union
 - b) Study Group on Quantum Electronics
 - c) 1972 General Report
 - d) loan fund for conferences
 - e) conference fees
 - f) conferences for 1974
 - g) special fund for developing countries
 - h) commission on General Relativity and Gravitation
 - i) report by Prof. Vul on Magnetism Conference visa problems
 5. President's report
 6. Secretary-General's report
 7. Associate Secretary-General's report
 8. Financial report for 1973
 9. State of the budget for 1974
 10. Budget for 1975
 11. Conferences proposed for 1975
 12. Commissions' affairs
 13. Inter-unions' affairs
 14. ICSU's affairs
 15. General Assembly 1975 (Munich)
 16. Next Executive meeting.

Québec, May 2nd, 1974.

14PAP

May 2, 1974

Professor D. Allan Bromley
Wright Nuclear Structure Laboratory
Yale University
New Haven, Connecticut 06520

Dear Al:

I just received the draft by L. Slack of the letter to Professor Kerwin, which we talked about in Washington. I find the letter perfectly alright as it is. I would like, however, that a memorandum be added, addressed to Kerwin or to myself containing references to the incidents which that letter refers to. I feel that we should have a paper before us giving some substance to the references mentioned in the letter. I suggest that the incidents of the Moscow Magnet Conference should be spelled out in a few words and also the visa cases that were mentioned at our discussion in Washington. Furthermore the conference should be quoted where no adequate number of conference proceedings were printed.

It may interest you in connection with the visa problems that I just heard of a case of a Hungarina theorist (George Marx) who received his U.S. visa only on the day he left, although he applied six weeks earlier.

With best regards,

Sincerely yours,

V. F. Weisskopf

VFW:dle

May 2, 1974

Professor Sidney Bludman
Department of Physics
University of Pennsylvania
Philadelphia, Pennsylvania 19174

Dear Sidney:

George Marks visited us here and told me he had difficulty getting his visa for a conference which you organized. As a vice-president of IUPAP, I am very interested in having a complete account of the story so that we can exert some pressure on the responsible U.S. authorities. Such instances are deplorable since they weaken the force we can exert against the Russians in their visa policy.

I would be grateful if you could give me such an account.

With best regards,

Sincerely yours,

Victor F. Weisskopf

VFW:dle

UNION INTERNATIONALE de PHYSIQUE PURE et APPLIQUÉE

IUPAP

INTERNATIONAL UNION of PURE and APPLIED PHYSICS

Secrétaire-général:

Prof. L. KERWIN
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Associate Secretary-General:

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MEMO to the members of the Executive Committee of IUPAP

from the Secretary-General

subject: ICSU nominations

I have received the enclos4d notice from ICSU.

Will you please send suggestions to President Maier-Leibnitz. He will probably be able to discuss these with Dr. Butler and communicate with Prof. Stafleu by April 15th.

Québec, January 30th, 1974.

INTERNATIONAL COUNCIL OF SCIENTIFIC UNIONS

CONSEIL INTERNATIONAL DES UNIONS SCIENTIFIQUES

SECRETARIAT
51, BOULEVARD DE MONTMORENCY
75016 PARIS, FRANCE

PRESIDENT : PROF. J. COULOMB (FRANCE)
SECRETARY GENERAL : PROF. F. A. STAFLEU (NETHERLANDS)
TREASURER : PROF. N. B. CACCIAPUOTI (ITALY)

18 January, 1974.

From: The Secretary General
To: Members of ICSU

Nomination of President, Vice-President,
Secretary General and Treasurer

In accordance with Rule of Procedure 3.1. I should like to invite Members to put forward names of candidates for the offices of President, Vice-President, Secretary-General and Treasurer. Each suggestion should be accompanied by biographical details and by an assurance that the candidate has agreed to serve if elected.

According to Statute 32(i) the President, Professor J. Coulomb, is not eligible for re-election; (ii) the Treasurer, Professor N.B. Cacciapuoti is not eligible for re-election, having served for three successive terms of office.

I regret that it is not possible for me to accept nomination for a further term of office. Therefore, your suggestions should not include the following names for the following posts:

- | | | |
|-------------------|---|----------------------------|
| President | - | Professor J. Coulomb |
| Secretary General | - | Professor F.A. Stafleu |
| Treasurer | - | Professor N.B. Cacciapuoti |

Nominations should be sent to me, c/o ICSU Secretariat, 51 Boulevard de Montmorency, 75016 Paris, and should reach me before 15 APRIL, so that the Executive Board can consider suggestions and submit its proposals in accordance with Rules of Procedure 3.2.

UNION INTERNATIONALE de PHYSIQUE PURE et APPLIQUÉE

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MEMO to members of the Executive Committee of IUPAP

from the Secretary-General

object: 6th International Conference on High Energy Physics
and Nuclear Structure
Los Alamos, USA - June 1975.

-
- A - This Conference is one of a IUPAP sponsored series, the last being in Uppsala in 1973.
 - B - It has the formal approval of the Commission on Nuclear Physics and will probably receive shortly the approval of the Commission on Particles and Fields since the Chairman, Dr. Yang, has recommended it.
 - C - It is a "B" Conference, and therefore subject to Executive approval.
 - D - In order to make advanced preliminary announcements judged important by the organizers and the Commission, we are requested to express approval in principle subject to budget considerations at our Madrid meeting.

Will you please let me know within the next two weeks if you approve of this Conference.

Québec, January 30, 1974.

The American Physical Society

IUPAP

W. W. HAVENS, JR., EXECUTIVE SECRETARY

J. A. BURTON, TREASURER

335 EAST 45TH STREET
NEW YORK, N. Y. 10017
(212) 685-2014

Memorandum: Isadore Rudnick
Theodore Holstein
A. Theodore Forrester
K. Barner
K. Telschow
Philip Pincus
Robert Finkelstein
Robert A. Satten
B. Fried
Vern O. Knudsen

Seth J. Putterman
L. Berger
K. MacKenzie
Richard E. Norton
Rubin Braunstein
Steven A. Moszkowski
Paul Chaikin
Yee-Chun Lee
David N. Levin

Date: 8 January 1974

Subject: Restriction of Russian Scientists

In answer to your letter of 6 December 1973 expressing your deep concern over the exclusion of Mark Azbel, Alexander Voronel and Moshe Gitterman from the recent International Conference on Magnetism in Moscow, there is no doubt that the Russians violated the Resolution of Free Circulation of Scientists passed at the ICSU meeting in September 1972. However, it is not the resolutions which govern the operations of ICSU and IUPAP, but the statutes. Unfortunately, as I interpret the statutes, the Russians were within their rights in excluding Azbel, Voronel and Gitterman. The amendment to the statutes of ICSU passed in September 1972 at the Extraordinary General Assembly of ICSU reads as follows:

"The Extraordinary General Assembly of the International Council of Scientific Unions immediately preceding the XIV General Assembly held in Helsinki, Finland in 1972 amended the statutes of the Council. The following new provision concerning the non-discriminatory philosophy of ICSU was incorporated into the statutes:

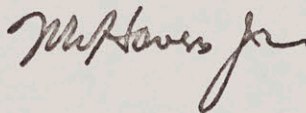
5. In pursuing these objections the Council shall observe the basic policy of non-discrimination and affirm the right of scientists throughout the world to adhere to or associate with international scientific activity without regard to race, religion, political philosophy, ethnic origin, citizenship, language, or sex. The Council shall recognize and respect the independence of the international scientific planning of its national members."

8 January 1974

The last sentence of the statute specifically recognizes the rights of the independence of internal scientific planning of its national members. As I interpret this statute, the host country can regulate who attends from the host country. The important word is "national". Since Azbel, Voronel and Gitterman are Russian nationals, the Russians had the right to prevent them from attending. IUPAP certainly does not approve nor condone what the Russians did, but they had the legal right to do so.

This matter was discussed in some detail at the meeting of the Executive Committee of IUPAP in September 1973. The matter will certainly be brought up at the General Conference of IUPAP which will be held in 1975. At this time the American delegation to the General Conference hopes to introduce resolutions which can be adopted by IUPAP which can prevent actions like this from occurring in the future.

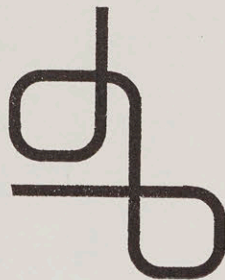
Sincerely yours,



W.W. Havens, Jr.

WWH:dw

cc: R.F. Bacher
V. Weisskoff
R. Dow
J. Mayer
W.K.H. Panofsky



73-2
October 20, 1973

PRELIMINARY LIST OF IUPAP CONFERENCES 1974

At the meeting of the Executive Committee of the International Union of Pure and Applied Physics held in Budapest, September 28-29, 1973, patronage of the Union was extended to international conferences to be organized in 1974 as listed in this News Bulletin.

Adhering to the established procedure for granting IUPAP sponsorship to conferences, final approval was deferred for a number of scientific meetings to be held in addition to the ones listed in this bulletin awaiting that all formal requirements have been met. As soon as a final decision has been made on all applications for sponsorship a complete list of IUPAP conferences in 1974 will be issued.

It is recalled that IUPAP conferences are classified as A, B or C type conferences depending on size and scope. The three categories are defined as follows:

- A: General conferences designed to provide an overview of the entire field of interest to a Commission. Normally occurring at three-year intervals and with an attendance in the range 750-1500.
- B: Topical conferences concentrating on broad sub-fields in the area of a Commission's interest. Normally scheduled in the three years between type A conferences. Expected attendance in the range 300-600.
- C: Special conferences on more specialized topics than in the case of type B conferences. Normally held in the years between type A conferences. Anticipated attendance in the range 50-200.

JN/AC

INTERNATIONAL CONFERENCES APPROVED FOR 1974

7. ACOUSTICS COMMISSION

7.1 Eighth International Congress on Acoustics

London, United Kingdom
July 23-31, 1974

Organizer: Prof. B.L. Clarkson
47 Belgrave Square
London SW1 X8QX
"A" England

8. SEMICONDUCTORS COMMISSION

8.1 12th International Conference on the Physics of Semiconductors

Stuttgart, BRD
July 15-19, 1974

Organizer: Dr. O.G. Folbert
IBM Deutschland GmbH, Entwicklung und Forschung
P.O. Box 210
D-7030 Stuttgart
"A" Federal Republic of Germany

10. SOLID STATE COMMISSION

10.1 5th International Symposium on Magnetic Resonance

Bombay, India
January 14-18, 1974

Organizer: Dr. D. Fiat
International Society of Magnetic Resonance
Weizmann Institute of Science
Rehovot
"B" Israel

Joint sponsorship with Magnetism Commission

10.2 X-Ray Processes in Matter

Helsinki, Finland
July 29 - August 1, 1974

Organizer: Dr. T. Åberg
Laboratory of Physics
Helsinki University of Technology
SF-02150 Otaniemi
"C" Finland

10.3 Color Centers in Ionic Crystals

Sendai, Japan
August 19-23, 1974

Organizer: Dr. M. Ueta
Department of Physics
Tohoku University
Katahira 2-Chome
Sendai
"B" Japan

11. COMMISSION ON PARTICLES AND FIELDS

11.1 IXth International Conference on High Energy Accelerators

Stanford, California, USA
May 2-7, 1974

Organizer: Prof. W.K.H. Panofsky
SLAC
P.O. Box 4349
Stanford, California 94305
"B" USA

11.2 XVIIIth International Conference on High Energy Physics

London, United Kingdom
July 1-10, 1974

Organizer: Dr. G.H. Stafford
Rutherford High Energy Laboratory
Chilton, Didcot
Berkshire
"A" England

12. NUCLEAR PHYSICS COMMISSION

12.1 The Few Body Problem in Nuclear Physics

Québec, Canada
August 26-30, 1974

Organizer: Prof. R.J. Slobodrian
Université Laval
Département de Physique
Québec 10c
"B" Canada

12.2 Reactions between Complex Nuclei

Nashville, Tennessee, USA
June, 1974

Organizer: Dr. P.H. Stelson
Physics Division
Oak Ridge National Laboratory
P.O. Box X
Oak Ridge, Tennessee 37830
"B" USA

16. PLASMA PHYSICS COMMISSION

16.1 2nd International Conference on Electrode Phenomena
in Discharges

Bucharest, Romania
May 13-15, 1974

Organizer: Dr. C. Popovici
State Committee for Nuclear Energy
Dept. of Plasma Physics
Physics Institute
Bd. Pacci 222
Bucharest
"C" Romania

COMMITTEE ON GENERAL RELATIVITY AND GRAVITATION

International Conference on General Relativity
and Gravitation

Haifa, Israel
September, 1974

Organizer: Prof. N. Rosen
Department of Physics
Technion
Haifa
"A" Israel

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Conferences proposed for 1974 ... 2

check-list

C.12 - COMMISSION on NUCLEAR PHYSICS

FEW BODY PROBLEMS in NUCLEAR PHYSICS
Québec - August

GAMMA-RAY TRANSITION PROBABILITIES
Delhi - January

REACTIONS BETWEEN COMPLEX NUCLEI
Nashville - June

x

C.14 - PHYSICS EDUCATION COMMISSION

INT. CONF. on EXAMINATIONS and TESTING
India - ?

C.15 - COMMISSION on ATOMIC and MOLECULAR PHYSICS and SPECTROSCOPY

IVth INT. CONF. on ATOMIC PHYSICS
Heidelberg - July

x

18th CONGRÈS AMPÈRE
Nottingham - September

IVth INT. CONF. on VACUUM ULTRAVIOLET RADIATION PHYSICS
Hamburg - July

COMMITTEE on GENERAL RELATIVITY and GRAVITATION

INT. CONF. on GENERAL RELATIVITY and GRAVITATION
Haifa - September

x

NATIONAL RESEARCH COUNCIL

NATIONAL ACADEMY OF SCIENCES NATIONAL ACADEMY OF ENGINEERING

2101 CONSTITUTION AVENUE WASHINGTON, D.C. 20418

DIVISION OF PHYSICAL SCIENCES

February 22, 1974

MEMORANDUM

TO: Members of U.S. National Committee for IUPAP

FROM: Richard Y. Dow, RD Staff Officer

SUBJECT: Memoranda from IUPAP Secretary-General

Enclosed for your information and comment are copies of a memorandum of January 14, 1974 on activities of National Committees for IUPAP, and a memorandum of January 16, 1974 on proposed increase in IUPAP dues, which I recently received from the IUPAP Secretary-General.

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MEMO to Chairmen or Secretaries of National Committees
from the Secretary-General of IUPAP

object: activities of National Committees for IUPAP

At the recent Executive meeting in Budapest, reports of the activities of some national committees were discussed and it was recalled that some committees participate in events other than official IUPAP conferences and meetings. This is completely according to the spirit of the IUPAP statutes which state that: "National Committees will, in their respective countries, encourage and coordinate study in various fields of physics with emphasis on international aspects".

The Executive expressed its considerable satisfaction with such activities and encourage all national committees in this respect. I enclose for your information copy of a reprint from "Physics Bulletin" concerning the general activities of national committees.

The Executive will be very pleased to learn of any activities involving developing countries (.e.g. visits, exchanges, cooperative programmes, etc.), as well as of any other activities of your National Committee.

Québec, January 14, 1974.

c.c.: for information to members of the Executive Committee of IUPAP

The International Union of Pure and Applied Physics

LARKIN KERWIN, DSC, FRSC, *Associate Secretary-General, International Union of Pure and Applied Physics, Dept of Physics, Laval University, Québec, Canada. This article is an updated and modified version of one first published in Physics Today May 1969 p53*

Fifty years ago, ten prominent physicists meeting in Paris laid the foundations of an international association of physicists. They were: President: Sir William Bragg; Vice-Presidents: Professors M Brillouin, O M Corbino, M Knudsen, M Leblanc, E Lorentz, R A Millikan, H Nagaoka, E van Aubel; and Secretary: H Abraham. Their idea met with immediate response and 13 countries became the founding members. The second meeting in Brussels in 1925 assembled a galaxy of delegates, including MacLennan, Knudsen, Madame Curie, Abraham, Langevin, Bragg, Lorentz and Siegbahn. One of the subjects discussed was the alarming increase in the number of published papers and the difficulty of finding time to read them all.

By 1931, the International Union of Pure and Applied Physics (IUPAP) was one of eight scientific unions, including those of chemistry, biology and astronomy, doing business on a world wide scale. The Union's purpose is to foster international physics meetings, more rapid dissemination of information and the establishment of international standards, units and nomenclature.

Its unofficial goal is to make a contribution to general international understanding. Although this goal is generally achieved, there have been occasional unedifying scenes at general assemblies indicating that politics can filter into the most august of meetings.

1931 also marked the federation of the eight unions into the International Council of Scientific Unions (ICSU) that coordinates certain projects, promotes interunion and interdisciplinary scientific activities, and represents science as a whole to various world organizations.

ICSU now comprises 16 unions in addition to national members, and works closely with UNESCO.

National committees

IUPAP has flourished since 1922 and now 'represents' 38 countries, meaning that physicists in these countries have at one time formed a national committee for physics and requested Union admission. The Union itself consists of delegates of these national committees, who therefore control its policy and activities.

The Union statutes or constitution are passed, with occasional revision, by the national committees at a general assembly. (The last revision was in 1960.) According to the statutes, the national committees should 'encourage and coordinate study in various fields of physics, with emphasis on international aspects'. This presumably means that, in addition to being actively involved in IUPAP, the committee will further the organization of international meetings in its country (whether they are IUPAP sponsored or not), promote travel by its country's physicists and encourage and stimulate visits and talks by foreign physicists. In this way, the committee will strengthen the collective international 'conscience' of physics, which is its ultimate authority and support. Where the committee is identified or closely associated with a national physics society, as in Australia, these activities are usually more vigorous.

National committees vary a great deal in size and in the manner of their appointment: some are the exclusive responsibility of their country's national academy or research council; others are joint committees of such academies and the national physics society and yet others are organized by the government agency that has initiated its country's participation in the Union.

Each country holds from one to 18 shares in the Union, this number being negotiated between the executive com-

mittee and the national committee. The number of shares reflects the relative activity of physics in the country. The national committees send delegations of various sizes to the General Assembly, yet cast votes as a block for nonscientific questions. The number of votes assigned to a delegation varies with their number of shares but saturates at five. Scientific questions are decided on a one vote per delegate basis and there have been very few real 'divisions' at the General Assemblies.

The vehicle for action by the national committees is the Assembly, where the member countries agree on Union dues, general budget and conference policies and also elect an Executive Committee to administer the Union. Nominations for various positions on the Executive Committee, the commissions and the interunion committees are normally submitted by the national committees before the Assembly, so a slate can be considered prior to elections.

Acting on the policy laid down by the Assembly and the advice of the commissions, the Executive Committee extends sponsorship, and often grants, to conferences: 26 international conferences are being sponsored in 1972 with 16 receiving grants. Union sponsorship is considered desirable as a gauge of conference quality, as an aid for raising funds and in some cases as an important factor in simplifying visa issuance.

The Executive Committee is the proper body to whom conference proposals, nominations for Union committees and items for the Assembly's agenda should be submitted. These matters are referred to the appropriate commission for advice or dealt with directly if there is no commission or a great urgency, but Executive Committee decisions must be ratified by the Assembly. The Executive Committee is elected for a three year period at each

Member countries

Argentina	Italy
Australia	Japan*
Austria	Mexico
Belgium*	Nationalist China
Bolivia	Netherlands*
Brazil	Norway*
Bulgaria	Poland*
Canada*	Romania
Cuba	South Africa*
Czechoslovakia	South Korea
Denmark*	Spain*
Federal Republic of Germany	Sweden
Finland	Switzerland*
France*	United Arab Republic
German Democratic Republic	United Kingdom*
Hungary	USA*
India	USSR
Ireland	West Pakistan
Israel	Yugoslavia

*The original thirteen

General Assembly from a slate of nominees to which the national committees are expected to contribute. Officers usually serve two terms, but the Secretary-General has traditionally held office for a much longer period.

Union headquarters are currently in London under the direction of Secretary-General Clifford Butler of the Nuffield Foundation. Certain matters, particularly financial ones, are handled by the Quebec office. The Executive Committee meets once a year, usually in a different country each time. Among other things, it fills vacancies on commissions and interunion committees, ordinarily on the commission's recommendation, although alert national committees sometimes make suggestions.

Topical and general commissions

International commissions promote the welfare of specific fields of physics, in accordance with the Union's aims. They are concerned principally with sponsoring international conferences (for instance the high energy physics conference in Chicago next September), promoting international projects (for example the ICSU Committee on Data for Science and Technology), and seeking uniform usage of units and symbols (see *IPPS Bulletin* September 1967 p302). These activities and other matters are proposed and reviewed every three years at the General Assembly, where the Executive Committee and the commissions report to the national delegates, who then give their instructions for the next three years.

Each commission consists of about six physicists, with some corresponding members, representing a certain specialization. There are at the moment 12 topical commissions (thermodynamics and statistical mechanics, cosmic rays, very low temperature physics, acoustics, semiconductors, magnetism, solid state, particles and fields, nuclear physics, atomic masses and fundamental constants, atomic and molecular physics and spectroscopy, plasma physics). The last is the most recently formed (1969).

There are also four general commissions: symbols, units, and nomenclature; publications; physics education; and finance. The International Commission for Optics is an affiliated commission. Commission members have traditionally been appointed by successive assemblies for two three-year terms, continuity being assured by three new commissioners named at each General Assembly; yet special circumstances frequently cause variation in length of service. The

British National Committee for Physics, 1970-72

Chairman
Professor N Kurti

Ex officio
Dr J V Dunworth (Director, NPL)
Mr A W Ross (Chief of Naval Research, Ministry of Defence)
Sir Harrie Massey (Physical Secretary, Royal Society)
Professor K C Dunham (Foreign Secretary, Royal Society)
Dr C C Butler (Secretary-General, IUPAP)

Royal Society
Professor P H Fowler
Professor F C Frank
Dr R S Pease
Professor W C Price

British Institute of Radiology
Professor J Rotblat

Institute of Physics
Professor W Cochran
Professor S F Edwards
Professor D H Parkinson

Institution of Electrical Engineers
Dr J S Forrest

Royal Meteorological Society
Dr T W Wormell

Royal Society of Edinburgh
Professor G R Bishop

Chairman of the Optical Subcommittee
Professor O S Heavens

commissions review requests for sponsorship of international meetings, often instigate or organize these meetings, publish books and documents, advise the Union and generally seek to promote the field entrusted to them.

The topical commissions frequently receive recommendations from national committees concerning proposed international conferences, and occasionally concerning interunion and other matters. Proposals for conferences may be submitted by any group of physicists, but the commission is glad to have the view of the local national committee as well as that of others. It is natural that a national committee whose physicists have a special interest in a given area would have frequent correspondence with the pertinent commission. Reports on commission activities are prepared annually for the executive and national committees should obtain copies if the information is interesting and useful for dissemination to physicists in their country.

The publication, education, and symbols and units commissions are of a more general interest and all national committees are expected to contribute more actively to these commissions' work. In particular, the committees should receive and exploit the commissions' publications and seek to implement the adopted proposals in their countries. Because of their general scope, conferences sponsored by these commissions

should attract a wider audience from all countries than the meetings of the more specialized commissions. Commissioners are appointed in the same way as those of the topical commissions.

IUPAP is a very active member of ICSU, and currently participates in six of its committees: the Scientific Committee on Oceanic Research (SCOR), the Special Committee for Space Research (COSPAR), the Committee on Data for Science and Technology (CODATA), Spectroscopy, the Abstracting Board and the Science Teaching Commission. It is also a partner in four interunion commissions, in which ICSU also plays a role: with the International Geophysical Commission in the Upper Mantle Project, with five Unions in the Solar-Terrestrial Physics Commission (IUCSTP), with IUPAC on Polymers and with IUCr on Crystal Growth.

Physicists and IUPAP

The influence of an individual physicist on IUPAP depends therefore not only on his personal interest and initiative, but also on the way his national committee is set up. As mentioned, this can be a spontaneous coalition of representative physicists, a branch of a national academy of scientists, as in the USA – the more usual situation – or a group of physicists sponsored by a government agency. In many cases, as in Canada, the national society or association of physicists is directly involved. Union dues are currently set at \$300 per share. The total Union budget is about \$70000 per year, the bulk being used to help finance conferences. At the moment, the Union has no salaried employees.

The International Union of Pure and Applied Physics has been served faithfully and well by many distinguished physicists. Following the first president, William Bragg, was Robert A Millikan, and then Karl Manne Siegbahn, who remained during the difficult years of the second world war until 1947. Since then, Hendrik A Kramers, Nevill F Mott, Edoardo Amaldi, Homi J Bhabha, Louis Néel, and D I Blokhintsev have presided. Currently, Robert F Bacher of the California Institute of Technology is President and first Vice-President is H Maier-Leibnitz of the Institut Max Von Laue-Paul Langevin. The Secretary-General, now Clifford Butler, traditionally supplies a very strong continuity, for there have been only three previous Secretaries-General: Henri Abraham until 1943, Paul P Ewald in 1946-7, and Pierre Fleury who held office until 1963.

However, the activities of the Union have been influenced to an even greater extent by the temperament of its national committees: it is their Union and its vigour is a reflection of their own ■

UNION INTERNATIONALE de PHYSIQUE PURE et APPLIQUÉE

INTERNATIONAL UNION of PURE and APPLIED PHYSICS

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MEMO to Chairmen or Secretaries of National Committees for IUPAP
from the Secretary-General

object: value of the Union share

The present value of \$300. for the unit Union share was set at the General Assembly in Dubrovnik in 1969. By the next General Assembly in Munich in 1975, six years of accumulated world inflation will have reduced the purchasing power of IUPAP's budget considerably. Already the organizers of international conferences and some commissions have pointed out to us that typical IUPAP grant for a conference does not cover nearly as many expenses as previously. Last year, one international conference had to be cancelled because of a 20% short-fall in funds: this represents inflation since 1969.

In common with other unions, it appears that IUPAP will have to increase its unit fee simply in order to provide same services to international Physics in 1975 as in 1969. Desirable expansion of activities would require yet a further increase.

The purpose of the present note is to alert national committees to the fact that at the 1975 General Assembly it will probably be proposed to increase the unit fee from \$300. to \$400.

I would appreciate it if you would discuss this matter with your national committees and prepare your Academy or other sponsoring agency for this eventuality. Decision to make such a proposal will be taken at the Executive meeting next September and I would be pleased to have your preliminary reactions in time for this meeting.

Québec, January 16, 1974.

c.c.: for information to members of Executive Committee of IUPAP