

S7 P1

MC 0572

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IUPAP, 1975

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October 30, 1975

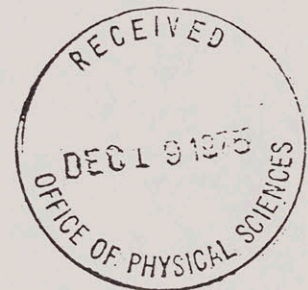
LIST OF IUPAP OFFICE HOLDERS 1975-78

The General Assembly met in Munich on September 24-28 to attend to business as given in the Union's statutes.

In a series of News Bulletins the major decisions taken by this General Assembly will be reported on; elections, resolutions etc.

This issue contains a complete list of the Union's office holders for the period 1975-78, that is until next General Assembly.

JN/ej



EXECUTIVE COMMITTEE

President: C.C. Butler
University of Technology
LOUGHBOROUGH
Leicestershire
United Kingdom LE11 3TU

Past President: H. Maier-Leibnitz
Deutsche Forschungsgemeinschaft
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Federal Republic of Germany

First Vice-President: L. Sosnowski
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University of Warsaw
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R. Kaischew, Bulgaria
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Université Laval
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Associate Secretary-General J.S. Nilsson
Institute of Theoretical Physics
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Sweden

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C2 - COMMISSION FOR SYMBOLS, UNITS AND NOMENCLATURE (SUN)

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 Physikalisch-Technische
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 Bundesallee 100
 D-33 BRAUNSCHWEIG
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DECEASED 3/76

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 University of Pennsylvania
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 Central Research Institute
 Physics
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The Netherlands

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Division de Physique
Conseil National de
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Inst. of Sound Vibration
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The University
SOUTHAMPTON
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 M.A. Tonnelat, France
 A. Trautman, Poland

Secretary: A. Mercier
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- I.U.3 - COSPAR: B. Peters
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- I.U.4 - IUCSTP: B. Peters
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- I.U.5 - CODATA: E.R. Cohen
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Bristol University
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c/o Dr S. Markyanov
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- I.U.14 - IUPAC UNITS: U. Stille
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UNION INTERNATIONALE de PHYSIQUE PURE et APPLIQUÉE

INTERNATIONAL UNION of PURE and APPLIED PHYSICS

Secrétaire-général:

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Téléphone: 418-656-2131

Associate Secretary-General:

Prof. J.S. NILSSON
Inst. of Theoretical Physics
Fack
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Telephone: 031/810100

XVth GENERAL ASSEMBLY

Munich - September 24-28, 1975

Preliminary Schedule

Tuesday, September 23

a.m. -
p.m. Secretariat
even. -

Wednesday, September 24

a.m. 09h.00 - Executive
10h.00 - Registration
p.m. 14h.00 - Secretariat
14h.30 - Registration
17h.00 - Scientific Programme I
18h.00 - Welcome Session

Thursday, September 25

a.m. 09h.00 - Assembly I
p.m. 14h.30 - Assembly II
evening - Oktoberfest

Friday, September 26

a.m. 09h.00 - Secretariat
09h.00 - Touring
11h.00 - Scientific Programme II
p.m. 14h.00 - Assembly III
17h.30 - Scientific Programme III
evening - Free

Saturday, September 27

a.m. 09h.00 - Assembly IV (if necessary)
11h.30 - Executive
p.m. 15h.00 - Tour - Reception
evening - Free

UNION INTERNATIONALE de PHYSIQUE PURE et APPLIQUÉE

INTERNATIONAL UNION of PURE and APPLIED PHYSICS

Secrétaire-général:

Prof. L. KERWIN
Bureau du Recteur
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Associate Secretary-General:

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S-402 20 Göteborg 5, SWEDEN.
Telephone: 031/810100

XVth GENERAL ASSEMBLY

Munich - September 24-28, 1975

Proposed Agenda

1. Welcome
2. Minutes of the 1972 General Assembly as recorded in Document IUPAP-17
3. Adoption of the Agenda
4. Obituaries
5. Resolutions of the Executive Committee concerning the Election Procedure for Executive and Commission membership
6. Resolution of the Executive Committee concerning the sizes of commissions
7. Preliminary discussion of names proposed by Commissions, National Committees and the Executive Committee
(decisions will be deferred until items 16 and 17)
8. Secretary-General's Report
9. Commissions reports
10. Reports from National Committees (if any)
11. Inter-union and other commissions - some brief reports
12. ICSU matters
13. Report of the Financial Commission
14. Recommendations of Commissions - presentation and preliminary discussion
15. General discussion of future union policy
16. Election of the Executive Committee for 1975-78
17. Election of Commissions members for 1975-78
18. Resolutions from Commissions
19. Resolutions from National Committees
20. Venue of the 1978 General Assembly
21. Other business
22. Adjournment of the Assembly.

Québec, January 13, 1975.

NATIONAL RESEARCH COUNCIL
ASSEMBLY OF MATHEMATICAL AND PHYSICAL SCIENCES

2101 Constitution Avenue, N.W., Washington, D. C. 20418

U.S. NATIONAL COMMITTEE FOR THE
INTERNATIONAL UNION OF PURE AND
APPLIED PHYSICS

May 23, 1975

MEMORANDUM

TO: Members of U.S. National Committee for the International Union
of Pure and Applied Physics

FROM: Richard Y. Dow, Staff Officer

SUBJECT: IUPAP General Report 1973, IUPAP Conferences, and IUPAP
Newsletter

IUPAP General Report 1973 (IUPAP-17) was recently distributed by IUPAP. A copy of the report is enclosed for USNC-IUPAP members who are not officers or members of IUPAP Commissions (I understand copies were sent to them by IUPAP).

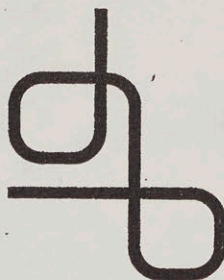
A summary of IUPAP conferences in Nuclear Physics (approved or proposed) as of April 1975 is enclosed. It would be appreciated if members of other IUPAP Commissions could provide me with a similar list for their conferences. The Academy often receives requests for information on future international conferences and it would be very helpful to have a complete list of future IUPAP conferences. I, of course, do have the IUPAP List of 1975 Conferences, but no information for 1976 or 1977.

Enclosed for your information is a copy of IUPAP News Bulletin 75-3.

Summary of IUPAP Conferences in Nuclear Physics (approved or proposed) as of April 1975

<u>Title</u>	<u>Place</u>	<u>Time</u>	<u>Organizer</u>	<u>Remarks</u>
1) "Second International Conference on Clustering Phenomena in Nuclei" Type B	U. O. Maryland, College Park, Md.	31 March - 4 April 1975	H. D. Holmgren	Approved by Executive Committee
2) "High Energy Physics & Nuclear Structure" Type B	Sante Fe (Los Alamos), New Mexico	9-13 June 1975	Louis Rosen	Approved by Executive Committee
3) "Vith International Conference on Cyclotrons and their Applications" Type B	Zurich, Switzerland	19-22 August 1975	J. P. Blaser	Approved by Executive Committee
4) "Fourth International Symposium on Polarization Phenomena in Nuclear Reactions" Type B	Lab. fur Kernphysik, Zurich, Switzerland	25-30 August 1975	W. Gruebler & E. Baumgartner	Approved by Executive Committee
5) "Nuclear Structure - Coexistence of Single Particle Type and Collective Type Excitations" Type B	Lake Bataton, Hungary	Sept. 1975	I. Fodor	We have requested more information on check list.
6) "Few Body Problem in Nuclear & Particle Physics" Type B	Delhi, India	Jan. 1976	A. N. Mitra	Being considered by Commission on Nuclear Physics
7) "Selected Topics in Nuclear Structure" Type C	Dubna, USSR	June or July 1976	V. G. Soloviev	Approved by Commission on Nuclear Physics
8) "International Conference on the Interactions of Neutrons with Nuclei" Type B	U. of Lowell, Lowell, Mass.	6-9 July 1976	Eric Sheldon	Approved by Commission on Nuclear Physics
9) "International Conference on Nuclear Structure" Type A	Tokyo, Japan	Sept. 1977	M. Sakai	Approved in principle at Munich Meeting. We are collecting material.
10) Specialized Nuclear Physics Conference	Canberra, Melbourne Australia	1977 (near time of Tokyo conference)	B. M. Spicer & M. Kenny	Organizers have approached Commission informally with regard to this conference

NEWS BULLETIN



International Union
of
Pure and Applied Physics

75-3
April 1, 1975

CONFERENCES 1976

All organizers of international conferences to be held in 1976 wishing to apply for IUPAP sponsorship are reminded that applications should be submitted through the appropriate Commissions. The target date for applications is April 1st and anyone who has not yet sent in the application should urgently do so. The procedure is given in the IUPAP document 17, the 1973 General Report, where also all relevant addresses can be found. The mandatory checklists to be filled in by the organizer may be obtained from the office of the Associate Secretary-General. The Executive Committee will rule on all applications at its annual meeting in September after obtaining the recommendations of the Commissions.

GENERAL ASSEMBLY 1975

As previously announced the XVth General Assembly of IUPAP will take place in Munich, September 24th to 28th, 1975. In time it coincides with the famous "Oktoberfest". Each National Committee may send as many delegates as the number of shares that the country or region holds. Delegations may include as many non-voting observers as the National Committee wishes to send. There will be four official sessions to conduct the business of the Assembly. There will further be a scientific program and a social program. The hosts are also arranging a ladies' program.

Officers of the Union and members of International Commissions for the 1975-78 period will be elected by the General Assembly. The election procedures will be determined at the beginning of the Assembly and are likely to follow the same pattern as adopted by the XIVth General Assembly in Washington (cf. 1973 General Report).

National Committees have been invited to make nominations for the various positions. They should be received by the Secretary-General before May 15th.

A final announcement including the program, registration forms, information about accommodation etc. will be sent to all official delegates late in April.

CONFERENCES 1975

The Executive Committee has granted IUPAP sponsorship to the following international conferences to be held in 1975:

C10.4 III INTERNATIONAL CONFERENCE ON LIGHT
SCATTERING IN SOLIDS

Campinas, SP.
Brazil

July 25-30
1975

C15.4 4TH COLLOQUIUM ON HIGH RESOLUTION
MOLECULAR SPECTROSCOPY

Tours
France

September 14-19
1975

Professor A.R. Regel, Leningrad has informed the Associate Secretary-General that the 6th International Conference on Liquid and Amorphous Semiconductors will be postponed till November 18-24, instead of June as earlier announced.

The announcement of the conference C12.3 in the News Bulletin 75-1 should read:

C12.3 VIITH INTERNATIONAL CONFERENCE ON CYCLOTRONS AND
THEIR APPLICATIONS

August 19-22, 1975
"B"

Organizer:
Prof. J.P. Blaser,
Schweizerisches Institut
für Nuklearforschung,
5234 Villigen, Switzerland.

IUGG

The International Union of Geodesy and Geophysics will hold its XVith General Assembly August 25 - September 6, 1975, in Grenoble, France. IUPAP has been invited to send a representative. Some 3000 scientists from at least 60 different countries are expected to participate.

UN CONFERENCE
ON
HUMAN
SETTLEMENTS

A UN Conference on Human Settlements will be organized in Vancouver, Canada, from May 31 - June 11, 1976. Among topics to be discussed are housing, transport, waste disposal, energy conservations, and environmental safeguards.

COSPAR

The Special Commission for Space Research (cf. NB 74-3) will organize a series of meetings with COSPAR Working Groups in connection with the XVIIIth Plenary Meeting of COSPAR, which will be held in May/June 1975 in Varna, Bulgaria. The IUPAP representative is Professor B. Peters, Danish Space Research Institute, Lundtoftevej 7, DK-2800 Lyngby, Denmark. Additional information about the COSPAR activities including the "Outline of Cooperative International Programs in Solar-Terrestrial Physics for the years 1974-78" of SCOSTEP can be obtained through Professor Peters.

CONFERENCE
ON
CYBERNETICS

The Third European Meeting on Cybernetics and Systems Research will be held in Vienna, April 20-23, 1976. Further information is available through Univ.-Prof. Dr. R. Trappl, Austrian Society for Cybernetic Studies, Schottengasse 3, A-1010 Wien, Austria.

COMMISSION
ON
PUBLICATIONS

The IUPAP Commission on Publications has unanimously recommended the following amendment to previous recommendations regarding conference proceedings (NB-11, 1969):

"If the proceedings of the Conference are published, every effort should be made to have them published in a way that make them widely and easily available to the scientific community: in special issues of a regular scientific journal or in issues of a regular conferences series published by a journal or a scientific society."

IUPAP

April 18, 1975

U.S. National Committee for IUPAP

Reports for Meeting of
April 30, 1975

I. Financial Reports.

A. Supplementary report on expenditures for the IUPAP XIV General Assembly:

Balance General Assembly Account, 3/31/75	\$14,433.17
Interest on Investment	1,414.96
Expenditures (mailing audio-cassette albums, correspondence)	(-) <u>107.96</u>
Total	\$15,760.17

This completes all the work in connection with the XIV General Assembly of IUPAP except for some small expenditures this month in mailing some complimentary copies of the audio-cassette albums. The funds remaining are available for use as directed by USNC-IUPAP. \$15,000 of these funds are in an investment fund. See previous financial reports for detailed information on receipts and expenditures.

B. Support of Activities of USNC-IUPAP.

The activities of the USNC-IUPAP are supported by NSF Task Order 40, which is administered by the Commission on International Relations. 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. 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 total of 2,055 copies of Physics 50 Years Later were printed; of these, 500 were distributed as indicated above by the USNC-IUPAP, 846 were sold by the Academy's Printing and Publishing Office (27 copies were sold last month), and 70 complimentary copies were distributed by the PPO. This leaves 639 copies available for sale, at a cost of \$11.00 each.

Brochures describing Physics 50 Years Later were sent out to over 7,500 individuals and libraries. Many of the 70 complimentary copies of the book were sent to reviewers. The following four recent reviews appeared in the journals indicated:

<u>Journal</u>	<u>Issue</u>	<u>Reviewer</u>
Applied Spectroscopy	Vol 29, No. 1, 1975	John P. Unik
Technology Review	December 1974	Herman Feshbach
American Scientist	Nov./Dec. 1974	Frederick Seitz
Natl. Science Teachers Association	Feb. 1975	Edmund G. Geiger

Abstracts of the book and of some of the chapters were included in Nuclear Science Abstracts, August 15, 1974.

The Report of the Business Sessions of the XIV General Assembly was recently 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 have been put in an audio-cassette album by the American Association for the Advancement of Science. The album, titled, The Physical World, consists of six cassettes and a booklet containing reproductions of many of the illustrations used by the speakers in their original presentations. Price per album: \$64.95 to AAAS members, \$69.95 to non-members. The lectures reproduced are:

Optics, G. Toraldo diFrancia

Astrophysics, Fred Hoyle

Spectroscopy and Molecular Structure, Gerhard Herzberg

Solid State Physics, John Bardeen

The Many Facets of the Nuclear Structure, Aage Bohr

Physics and Society, Hendrik Casimir

President :
Prof. Harrison Brown
c/o National Academy of Sciences
2101 Constitution Ave.
Washington D.C. 20418

March 17, 1975

Professor F. Lynen
President IUPAB
Max Planck Institute fur Biochemie
8033 Martinsried b/Munchen
Munchen
B.R.D.

Dear Professor Lynen:

In light of the increasing political pressures being felt by international nongovernmental organizations, I thought it would be helpful to share some thoughts with you and in turn to solicit your views.

As nongovernmental organizations, ICSU and the Unions are concerned with advancing the various scientific disciplines for the benefit of all peoples through international cooperation. Over the years they have established a far reaching pattern of cooperation and trust transcending the political barriers that divide the world.

I personally feel that one of the great strengths of ICSU lies in the fact it is deliberately and traditionally a non-political organization which embraces the key principles of universality and political non-discrimination. Over the years ICSU, with the unanimous support of the Unions, has passed several resolutions (see attached copies) to emphasize its non-political tradition. Because of this, at an Extraordinary General Assembly held in 1972 the ICSU Statutes were amended to include a provision concerning the non-discriminatory philosophy of ICSU which states in part that ICSU "... shall observe the basic policy of non-discrimination 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...".

Achieving full participation and membership of colleagues in the People's Republic of China in ICSU and the Unions is a goal I am sure we all share. In fact, I can say with all sincerity that no single accomplishment during my Presidency of ICSU would give me more satisfaction than to bring the great body of Chinese scientists into ICSU and I am striving actively to achieve this by all proper means. But I also feel strongly that we would do ICSU and the Unions irreparable harm in the long run if we were to violate our principle of universality and our non-political character by casting out one of our members as a political precondition to another's applying for membership.

page 2
Professor Lynen
3/17/75

I believe it is proper, however, for ICSU or a Union to insist that a National Member not pretend to represent scientists in geographical areas over which it has no effective control. As you may know, when I visited Taiwan last year for discussions of this question, it was formally stated by the President of their Academy that "...insofar as ICSU and its unions were concerned, the scientific community and the scientific endeavor represented by the Academia Sinica are only those in the geographic area coextensive with that under the effective administration of the Republic of China."

As I perceive it, there are in fact two separate scientific communities, one on the mainland and one on Taiwan. Membership in ICSU and the Unions is institutional and usually the scientifically separate areas represented by these institutions are countries but this is not a necessity. As China and Taiwan at present have no common scientific societies, budgets or travel facilities between their respective territories, there is no reason, as far as ICSU is concerned, why they cannot both be members. In this regard it is important to note two passages of the 1958 Resolution:

"Such adherence or association has no implication with respect to recognition of the government of the country or the territory concerned."

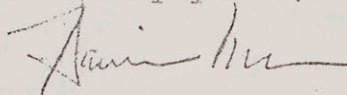
"Subject only to payment of subscriptions and submission of required reports, the ICSU is prepared to recognize the academy, research council, national committee, or other bona fide scientific group representing scientific activity of any country or territory acting under a government de facto or de jure that controls it."

In the months ahead, I believe we must all work together to achieve full participation by scientists all over the world and I am confident a way will be found to realize this without our abandoning our basic principles. At the same time we must exert a greater effort toward convincing governmental and intergovernmental organizations which attempt to use ICSU for political ends of the soundness of those principles and our evenhandedness in our applications of them.

page 3
Professor Lynen
3/17/75

I have given much thought to this critical problem and would
very much value receiving yours.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "Harrison Brown".

Harrison Brown
President

cc: Secretaries General of Unions
ICSU Officers, General Committee
ICSU Committees, Commissions
Scientific Associates

Identical letter sent to all Presidents of ICSU Unions

IUPAP

U.S. MEMBERSHIP ON IUPAP COMMISSIONS
(Suggestions Received as of April 21, 1975)

<u>Commission</u>	<u>Proposed Candidates</u>	<u>Position</u>	<u>Proposed by</u>
S.U.N.	George L. Trigg (Brookhaven Natl. Lab.)	Member	W. H. Havens, Jr.
	Simon Pasternack (Brookhaven Natl. Lab.)	Member	W. C. Wolfe/H. W. Koch
	John P. Schiffer (Argonne Natl. Lab.)	Member	F. Ajzenberg-Selove
Thermodynamics & Statistical Mechanics	Herbert B. Callen (Univ. of Penn.)	Member	APS Div. of Solid State Physics
	Kenneth G. Wilson (Cornell)	Member	" " " " " "
Very Low Temperature Physics	Michael Tinkham (Harvard)	Member	APS Div. of Solid State Physics
	David O. Edwards (Ohio State)	Member	" " " " " "
Publications	Henry H. Barshall (Univ. of Wisconsin)	Member	F. Ajzenberg-Selove
	James A. Krumhansl (Cornell)	Member	R. Smoluchowski/W. C. Kelly
Semiconductors	Marvin L. Cohen (Univ. of Calif. at Berkeley)	Member	C. Herring
	Evan O. Kane (Bell Labs.)	Chairman	APS Div. of Solid State Physics
	James C. McGroddy (IBM Research Labs.)	Member	" " " " " "
Magnetism	Simon Foner (MIT)	Member	APS Div. of Solid State Physics
	Benjamin Lax (MIT)	Member	C. Herring
	Mary B. G. Stearns (Ford Motor Co.)	Member	APS Div. of Solid State Physics
	Harry Suhl (Univ. of Calif. at San Diego)	Member	R. Smoluchowski
Solid State Physics	Henry Ehrenreich (Harvard)	Member	APS Div. of Solid State Physics
	Paul L. Richards (Univ. of Calif. at Berkeley)	Member	" " " " " "
Particles & Fields	Edwin L. Goldwasser (Natl. Accelerator Lab.)	Chairman	R. Smoluchowski
	Val L. Fitch (Princeton)	Member	R. Smoluchowski
	Robert K. Adair (Yale)	Member	F. Ajzenberg-Selove
	Francis E. Low (MIT)	Member	E. L. Goldwasser/APS Div. of Particles and Fields

U.S. MEMBERSHIP ON IUPAP COMMISSIONS
 (Suggestions Received as of April 21, 1975)

<u>Commission</u>	<u>Proposed Candidates</u>	<u>Position</u>	<u>Proposed by</u>
Nuclear Physics	Fay Ajzenberg-Selove (Univ. of Penn.)	Chairman	R. Smoluchowski
	" " " " "	Secretary	APS Div. of Nuclear Physics
	Herman Feshback (MIT)	Member	F. Ajzenberg-Selove
	Stanley S. Hanna (Stanford Univ.)	Member	APS Div. of Nuclear Physics
	Chien-Shiung Wu (Columbia Univ.)	Member	R. Smoluchowski
Atomic Masses & Fundamental Constants	Cornelius P. Browne (Notre Dame)	Member	F. Ajzenberg-Selove
	Barry N. Taylor (NBS)	Member	E. Richard Cohen
Physics Education	Anthony P. French (MIT)	Chairman	R. Smoluchowski/W. C. Kelly
	Ronald Geballe (Univ. of Washington)	Member	F. Ajzenberg-Selove/W. C. Kelly
	E. Leonard Jossem (Ohio State Univ.)	Member	H. W. Ford/W. C. Kelly
	Vera Kistiakowsky (MIT)	Member	F. Ajzenberg-Selove/W. C. Kelly
	Walter E. Massey (Univ. of Calif. at Santa Cruz)	Member	W. C. Kelly
	Arnold A. Strassenburg (SUNY Stony Brook)	Member	L. Slack/W. C. Kelly
Atomic & Molecular Physics and Spectroscopy	Benjamin Bederson (NYU)	Chairman	R. Smoluchowski
Plasma Physics	Ronald C. Davidson (Univ. of Maryland)	Member	APS Div. of Plasma Physics
	Burton D. Fried (Univ. of Calif. at L.A.)	Member	" " " " "
	Harold P. Furth (Princeton)	Member	R. Smoluchowski
	Melvin B. Gottlieb (Princeton)	Chairman	R. Smoluchowski
Quantum Electronics	Nicholaas Bloembergen (Harvard)	Member	R. Smoluchowski
Acoustics			
Cosmic Rays			

April 21, 1975

U.S. National Committee for IUPAP

Meeting of April 30, 1975

Expected Attendance

Members:

Dr. D. Allan Bromley (Chairman)	
Dr. Fay Ajzenberg-Selove	Dr. W. W. Havens, Jr.
Dr. Solomon Buchsbaum	Dr. William C. Kelly
Dr. E. Richard Cohen	Dr. George T. Rado
Dr. Joseph L. Fowler	Dr. Lewis Slack
Dr. Robert Geballe	Dr. Roman Smoluchowski
Dr. Edwin L. Goldwasser	Dr. Cecil J. Waddington

Invited Participants:

Dr. Stewart L. Meyer (Division of Mathematical and Physical Sciences - NSF)
Mr. William H. Taft III (Bureau of Int'l Sci. and Tech. Affairs - Dept. of State)
Dr. Michael P. Greene (for Dr. Ford - American Association of Physics Teachers)

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. Lewis M. Branscomb	
Dr. Sanborn C. Brown	Dr. John N. Howard
Dr. Kenneth W. Ford	Dr. A. W. K. Metzner
Dr. George S. Hammond	Dr. Michael Tinkham
Dr. Ira Hirsch	Dr. Victor F. Weisskopf

No response to date from following Members:

Dr. Herbert B. Callen	Dr. Evan O. Kane
Dr. Richard K. Cook	Dr. Simon Pasternack
Dr. Henry Ehrenreich	Dr. Frederick Seitz
Dr. Anthony P. French	Dr. Mary L. Shoaf
Dr. Melvin Gottlieb	Dr. Hugh C. Wolfe
Dr. Walter H. Johnson, Jr.	Dr. C. N. Yang

IUPAP

April 11, 1975

U.S. National Committee
of the
INTERNATIONAL UNION OF PURE AND APPLIED PHYSICS

Draft Minutes of the USNC-IUPAP Meeting

Madison Room
Sheraton Park Hotel
Washington, D. C.
April 24, 1974

Attendance

Members: D. Allan Bromley (Chairman); Fay Ajzenberg-Selove, Harrison Brown, Sanborn C. Brown, Herbert B. Callen, E. Richard Cohen, Richard K. Cook, Robert Geballe, Edwin L. Goldwasser, W. W. Havens, Jr., John N. Howard, William C. Kelly, A. W. K. Metzner, Simon Pasternack, George T. Rado, Mary L. Shoaf, Lewis Slack, Roman Smoluchowski, Cecil J. Waddington, Victor F. Weisskopf, C. N. Yang. Invited Participants: George L. Rogosa, Rolf M. Sinclair, William H. Taft III, William A. Wallenmeyer. NAS Staff: Richard Y. Dow, Edmund C. Rowan.

1. The meeting of the U.S. National Committee of the International Union of Pure and Applied Physics (USNC-IUPAP) was called to order by D. Allan Bromley, Chairman, at 12:30 p.m.. Each participant introduced himself and gave his affiliation. The minutes of the meeting of April 26, 1973 were approved.
2. XIV General Assembly of IUPAP. Richard Y. Dow, Staff Officer for USNC-IUPAP, brought the Committee up-to-date on the status of the expenditures for the Assembly, the distribution and sale of the scientific proceedings, and the preparation of the audio-cassette album of the scientific talks (see Appendix A for written reports). Sanborn C. Brown commented that a wider advertisement is needed to bring the proceedings to the attention of the entire physics community, not just the IUPAP community. He suggested that an effort be made to have more reviews published in scientific journals. The Staff Officer was requested to look into the matter and see what could be done.

3. USNC-IUPAP Membership. The changes in the membership were noted.
4. Chinese Membership (Peking and Taiwan) in ICSU and IUPAP. Harrison Brown briefed the Committee on the steps being taken to have both Chinas adhere to ICSU and its Unions. Going back in history, he pointed out that ICSU has always been concerned that it and its Unions be free of political discrimination. In 1958, ICSU adopted a Resolution on Political Non-Discrimination, and in 1963 they adopted a Resolution on Free Circulation of Scientists and established a Committee on Free Circulation of Scientists to hear complaints (copies of these and subsequent resolutions on the free circulation of scientists have been distributed to all members).

The Taiwan Academy of Sciences is a member of ICSU and all but five of its Unions. The U.S. NAS has cooperated with the Taiwan Academy in developing fellowship and research programs. The U.S. Academy had also established a Committee on Scholarly Communication with the People's Republic of China (PRC), before the Cultural Revolution in China. Thus the U.S. Academy has been cooperating in science with both Chinas.

Since President Nixon's visits to China, there have been exchange visits of scientists between the U.S. and China. About 100 Chinese scientists have visited the U.S., and 80 U.S. scientists have visited China.

The People's Republic of China invited Professor J. Coulomb and Professor F. A. Staflev to visit China, and discussions were held concerning China's membership in ICSU and its Unions.

As Vice-President of ICSU, Harrison Brown visited Taiwan, had discussions with Academy representatives and obtained an indication from them that they would offer no objection to the application and election to membership of an appropriate organization from Mainland China, and that they view their

scientific interest and jurisdiction over scientific affairs as being confined only to Taiwan.

Victor F. Weisskopf reported that IUPAP desires to solve the problem so that the Republic of China can join IUPAP.

C. N. Yang commented that some scientists from the People's Republic of China are attending scientific meetings, but they have not attended conferences sponsored by ICSU or its Unions. He cited, as an example, the attendance of three high-energy scientists from PRC at the Conference at Stony Brook last August. A scientist from Taiwan also attended this conference, but he was registered as from Stony Brook. Yang's opinion was that scientists from the People's Republic of China would not attend a conference sponsored by a group that recognizes Taiwan.

It was noted that the meeting of the Executive Committee on IUPAP will occur after the ICSU General Assembly in September, and that they would have available any ICSU decision regarding the two Chinas.

5. Free Circulation of Scientists. The Committee spent about an hour and a half discussing the problems encountered in granting visas in sufficient time to attend international conferences, and in particular, the exclusion of the Soviet Jews, Azbel, Gitterman, and Voronel, from the International Conference on Magnetism in Moscow, August 1973. The Committee recommended that a letter to the Secretary-General of IUPAP be drafted noting the Committee's concern over increasing reports of incidents that have occurred in conjunction with IUPAP-sponsored conferences in which the principles set forth in the Resolution of the XIV General Assembly of ICSU on the Free Circulation of Scientists appear to have been violated. [Letter sent to the Secretary-General is in Appendix B.]

6. APS Energy Study Committee. William W. Havens, Jr. gave a brief report on the activities of the APS Energy Study Committee. Proposals for three studies have been submitted to the Federal Government. The Reactor Safety Study has been funded; a series of meetings will be held in May, and a four-week study will be conducted at Los Alamos in August. The Radiation Effects Study will be conducted at Brookhaven, June 14-28. The proposal for a study on More Effective Utilization of Energy was recently submitted.

7. Bi-lateral U.S.-U.S.S.R. Program on Research. William A. Wallenmeyer, AEC Assistant Director for High-Energy Physics, briefed the Committee on scientific and technical cooperation between the U.S. and U.S.S.R. in the field of peaceful uses of atomic energy. A copy of the agreement between the U.S.A. and the U.S.S.R. on cooperation in atomic energy was distributed to the members prior to the meeting. In accordance with this agreement, cooperation is to be concentrated in the following three areas: (1) controlled thermonuclear fusion, (2) fast breeder reactors, and (3) research on the fundamental properties of matter. A U.S.-U.S.S.R. Joint Committee on Cooperation in the Peaceful Uses of Atomic Energy was established to implement the agreement. The first meeting of this Committee was held in Washington, D. C. in February. The record of the first meeting and several other documents relating to U.S.-U.S.S.R. cooperation, which were given limited distribution at the meeting, are in Appendix C. A Joint Specialists Meeting for Cooperation in Research on the Fundamental Properties of Matter strongly recommended that direct Telex communications be established to increase the speed and responsiveness of communications between the U.S. and U.S.S.R. coordinators. Victor F. Weisskopf has been designated as the U.S. coordinator.

The Committee discussed the possibility of using the direct Telex to assist in solving visa problems.

8. XV General Assembly of IUPAP, Munich, FRG, 1975. A nominating Committee will be appointed next year to prepare a slate of nominees for the U.S. Delegation. In the past the U.S. has sent five delegates to the General Assembly.

IUPAP will be asking National Committees and IUPAP Commissions to nominate new Commission members for a three-year period following the General Assembly. Members should keep this in mind and be prepared to nominate new U.S. members at next year's USNC-IUPAP meeting.

The proposed increase of the unit share of the IUPAP subscription, from \$300 to \$400, was discussed by the Committee. They agreed that the unit share should be increased but thought that the proposed increase was inadequate.

9. IUPAP Conferences in the U.S. The IUPAP conferences held in the U.S. in 1973 were successful. The Conference on Experimental Meson Spectroscopy, listed in the agenda under 9.c, was not approved for sponsorship by the IUPAP Commission. All the U.S. conferences listed in the Agenda for 1975, plus an International Symposium on Lepton and Photon Interactions at High Energy to be held in the summer of 1975 at Stanford, California, were approved by the USNC-IUPAP.

10. IUPAP Conferences in Other Countries. The Chairman reported that the IUPAP National Committee for Ireland has agreed to organize an international conference on physics in industry in the summer of 1976. Austria and Ireland have, in the past, proposed that such a conference be held and have also suggested that a Commission on Applied Physics be established. To assist in establishing an invitation list for this conference, which will be a type A (500-1000 participants) conference, the Secretary-General requested that

each National Committee forward to him the names of three physicists associated with applied and industrial physics. In view of the urgency expressed in this request, the Chairman acted prior to this meeting and nominated the following four physicists to assist with the conference:

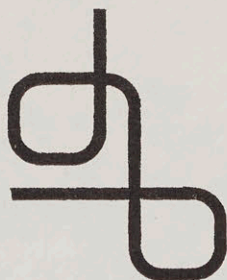
Dr. Albert M. Clogston - Bell Laboratories
Dr. Lewis M. Branscomb - IBM Corporation
Dr. Milan D. Fiske - General Electric Co.
Dr. W. Dale Compton - Ford Motor Company

The Committee discussed participation in the General Conferences (Category A - 750-1500). It was agreed that with TV presentation in other rooms, conferences of this large size are feasible.

In discussing proceedings of the conferences, it was noted that many were not published on a timely basis and were not published in sufficient quantity to make them widely and easily available to the scientific community. It was recommended that this be brought to the attention of IUPAP. [This was included in the letter to the Secretary-General of IUPAP concerning the free circulation of scientists, Appendix B.]

11. Proposed New Commission. E. Richard Cohen informed the Committee that consideration is being given to splitting the Commission on Atomic Masses and Fundamental Constants into two separate Commissions; one on Fundamental Constants and Precision Measurements and the other on Atomic Masses and Nuclear Models. The Committee suggested that a formal proposal, giving justification for splitting the Commission and need for new Commissions, be prepared and submitted to the USNC-IUPAP for consideration and comment before forwarding to IUPAP. Any action on IUPAP's part would have to be taken at the next General Assembly.

12. The meeting adjourned at 3:45 p.m..



75-4
September 1, 1975

EXECUTIVE COMMITTEE

The Executive Committee will meet on September 24th in Munich immediately before the General Assembly. Among matters to be dealt with are: Nomination of officers for the Executive Committee and the International Commissions for the elections at the General Assembly, International Conferences to be held in 1976 and the relationship between UNESCO and IUPAP.

GENERAL ASSEMBLY

The General Assembly meets in Munich on September 24-28. In all about 100 representatives of National Committees from 30 Member organizations are expected to attend the Assembly. Apart from business sessions extensive scientific and social programs will be organized for the delegates.

CONFERENCES 1975

The reader is reminded of the following IUPAP sponsored conference to be held during the period October-December.

- | | | |
|-------|--|-----------------------------|
| C8.1 | INTERNATIONAL CONFERENCE ON
AMORPHOUS AND LIQUID SEMI-
CONDUCTORS. | November 18-24
Leningrad |
| C10.3 | LOW LYING LATTICE VIBRATIONAL
MODES IN FERROELECTRICS AND
SUPERCONDUCTORS. | December 1-4
San Juan |

COSTED TRAVEL GRANTS

The Committee on Science and Technology in Developing Countries (COSTED) is giving travel grants to individual scientists from developing countries wishing to attend international conferences. Applicants should be below 35 years of age. Applications should be sent to the Scientific Secretary of COSTED, Indian Institute of Science, Bangalore, 560 012, India.

IUPAP runs a similar program (cf. NB 74-7) and some degree of coordination with matching grants is now attempted. Administrative procedures to assure fast processing of applications are being developed.

The IUPAP representative in COSTED is Professor S. Bhagavantam, the President of COSTED.

PHYSICS IN
INDUSTRY

The first International Conference on Physics in Industry is being held March 9-13, 1976, in Dublin, Ireland. It is organized by the National Committee for Physics of the Royal Irish Academy. The conference is sponsored by IUPAP.

The conference was originally proposed by IUPAP in response to several National Committees urging IUPAP to encourage initiatives in the field of applied physics. It is anticipated that the question of an International Commission on Applied Physics will be raised during the Dublin Conference.

Further information about the Conference may be obtained from Organizing Secretary, Physics in Industry Conference, Royal Irish Academy, 19 Dawson Street, Dublin 2, Ireland.

COSMIC RAY
COMMISSION

Professor J. Gierula, head of the Laboratory of Cosmic Rays at the Institute of Nuclear Physics in Krakow and a member of the Cosmic Ray Commission, died January 14, 1975. A pioneer in the field of emulsion techniques and a dedicated teacher he will long be remembered by the international physics community.

COMMISSION
ON PARTICLES
AND FIELDS

The problem of restricted attendance at international conferences has been the subject of much concern within the Division of Particles and Fields of the American Physical Society. It is requested that the next IUPAP sponsored International Conference on High Energy Physics be made an open meeting.

ICSU-
INTERUNION
COMMISSIONS

The Associate Secretary-General's office has received reports from the Inter-Union Commission on Geodynamics (ICG) and the International Union of Theoretical and Applied Mechanics presented at the meeting of ICSU General Committee. Copies can be obtained upon request.

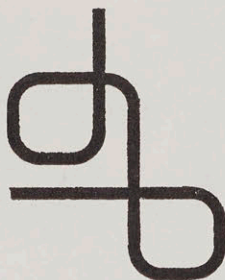
As of June 1, 1975, the new address of the ICG Secretariat is: Ecole Nationale Supérieure des Mines de Paris, 75 272 Paris Cedex 06, France.

COSPAR

The ICSU Committee on Space Research, COSPAR, held its XVIIIth meeting in Varna, Bulgaria, in May-June, 1975. A brief report on the many activities related to this meeting has been issued. Two COSPAR volumes will be published containing proceedings of sessions on: Space Research XVI - papers presented at the Symposium on Results from Co-ordinated Upper Atmosphere Measurements Programs and the Open Meetings of COSPAR Working Groups on Physical Sciences; Life Sciences and Space Research XIV - papers presented at the Symposium on Gravitational Physiology and during the Open Meetings of the working group on Space Biology.

The next COSPAR meeting will be organized in Philadelphia in June, 1976.

NEWS BULLETIN



International Union
of
Pure and Applied Physics

75-4
September 1, 1975

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As of June 1, 1975, the new address of the ICG Secretariat is: Ecole Nationale Supérieure des Mines de Paris, 75 272 Paris Cedex 06, France.

COSPAR

The ICSU Committee on Space Research, COSPAR, held its XVIIIth meeting in Varna, Bulgaria, in May-June, 1975. A brief report on the many activities related to this meeting has been issued. Two COSPAR volumes will be published containing proceedings of sessions on: Space Research XVI - papers presented at the Symposium on Results from Co-ordinated Upper Atmosphere Measurements Programs and the Open Meetings of COSPAR Working Groups on Physical Sciences; Life Sciences and Space Research XIV - papers presented at the Symposium on Gravitational Physiology and during the Open Meetings of the working group on Space Biology.

The next COSPAR meeting will be organized in Philadelphia in June, 1976.

IUPAP

NATIONAL RESEARCH COUNCIL
ASSEMBLY OF MATHEMATICAL AND PHYSICAL SCIENCES

2101 Constitution Avenue, N.W., Washington, D. C. 20418

U.S. NATIONAL COMMITTEE FOR THE
INTERNATIONAL UNION OF PURE AND
APPLIED PHYSICS

August 6, 1975

MEMORANDUM

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

FROM: Lewis Slack, Secretary

SUBJECT: Draft Minutes of April 30, 1975 Meeting of USNC-IUPAP

Enclosed is a copy of the draft minutes of the April 30, 1975 meeting of USNC-IUPAP. Please submit your comments, corrections, and additions to the minutes to me within the next month.

Please note that the Chairman requested all members to send him documented evidence of any difficulties in connection with international conferences.

cc: C. K. Reed

May 19, 1975

U.S. National Committee
for the
INTERNATIONAL UNION OF PURE AND APPLIED PHYSICS

Draft Minutes of the USNC-IUPAP Meeting

Club Room A
Shoreham-Americana Hotel
Washington, D. C.
April 30, 1975

Attendance

Members: D. Allan Bromley (Chairman); Fay Ajzenberg-Selove, Herbert B. Callen, E. Richard Cohen, Richard K. Cook, Joseph L. Fowler, Edwin L. Goldwasser, Melvin Gottlieb, W. W. Havens, Jr., Conyers Herring, Walter H. Johnson, Jr., William C. Kelly, Simon Pasternack, George T. Rado, Frederick Seitz, Mary L. Shoaf, Lewis Slack, Roman Smoluchowski, Cecil J. Waddington. Invited Participants: Michael P. Greene (for Kenneth W. Ford - American Association of Physics Teachers), Robert Liimetainen (Bureau of International Scientific and Technical Affairs - Department of State), Stuart L. Meyer (Division of Mathematical and Physical Sciences - National Science Foundation). NAS Staff: Richard Y. Dow, Edmund C. Rowan.

1. The meeting of the U.S. National Committee for the International Union of Pure and Applied Physics (USNC-IUPAP) was called to order by D. Allan Bromley, Chairman, at 12:40 p.m.. Each participant introduced himself and gave his affiliation. The minutes of the meeting of April 24, 1974 were approved.
2. XIV General Assembly of IUPAP. Richard Y. Dow, Staff Officer for USNC-IUPAP, brought the Committee up-to-date on the status of the expenditures for the Assembly, the distribution and sale of the scientific proceedings, and the preparation of the audio-cassette album of the scientific talks (see Appendix A for written reports). It should be noted that the USNC-IUPAP has over \$15,750. for use in supporting future General Assemblies and international IUPAP conferences in the U. S.. Reviews of the scientific proceedings, Physics 50 Years Later, have been published in scientific journals. Tape recordings of six of the scientific lectures have been put in an audio-cassette album and are available to the scientific community.

3. USNC-IUPAP Membership. The Chairman called the Committee's attention to the latest USNC-IUPAP membership list which shows how the Committee is composed. It should be noted that the terms of three society members and two members-at-large terminate at the end of this year. In addition, the ex-officio terms of the present U.S. IUPAP Commission members terminate on December 31, 1975.

4. IUPAP Executive Committee Meeting, Madrid, September 30 - October 1, 1974. Professor Weisskopf was unable to attend the USNC meeting because of a previous commitment. However, he did attend the IUPAP Executive Committee meeting held in Madrid and presented the concern of the USNC-IUPAP on the free circulation of scientists and on the availability of the proceedings of IUPAP conferences, as given in Dr. Slack's letter of May 1974 to Professor Kerwin. [A copy of this letter was included in Appendix B of the minutes of the April 1974 USNC-IUPAP meeting.] Professor Weisskopf reported to the Chairman that several other nations concurred with our recommendations on the free circulation of scientists. The Executive Committee of IUPAP has requested that National Committees document specific cases in which the principles set forth in ICSU Resolutions on the free circulation of scientists have been violated. In response to this, Dr. Bromley is compiling documentation on cases which have come to his attention. He requested that members of the USNC-IUPAP provide him with documentation on any violations that come to their attention; these are to include violations of the spirit of the ICSU Resolutions and for all international meetings, not just IUPAP sponsored meetings.

5. Chinese Membership in ICSU and IUPAP. The Chairman reminded the Committee of Dr. Harrison Brown's briefing last year on steps being taken to have both Chinas adhere to ICSU. He also called attention to Dr. Brown's letter to the Union Presidents regarding this problem. After discussing this matter, the

following resolution was adopted by the Committee:

"The U.S. National Committee for IUPAP is in full agreement with IUPAP that all possible steps should be taken, within the framework of IUPAP statutes, to encourage the People's Republic of China to join IUPAP as a member. However, the Committee feels strongly that IUPAP should maintain its principle of universality and non-political character and should not cast out any member as a political precondition to another's application for membership."

The Committee noted that the exchange visits of scientists between the People's Republic of China and the U.S., which started as a result of President Nixon's visit to China, is continuing. A group of solid-state physicists is scheduled to visit China this September.

6. Bi-lateral U.S.-U.S.S.R. Programs in Physics. The Chairman introduced this topic by outlining the three independent bi-lateral programs that specifically involve physics. These are: (1) a program that involves the Energy Research and Development Administration (ERDA - formerly, Atomic Energy Commission) and the Department of State Committee on Atomic Energy, (2) an inter-Academy program, and (3) NSF/NAS program, which is a direct off-shoot of the Nixon-Brezhnev meetings and agreements.

The program involving ERDA is concentrated in the following three areas: (1) high energy physics, (2) plasma physics, and (3) breeder reactors. The inter-Academy program has an on-going exchange program and organizes joint symposia in the U.S. and U.S.S.R.. To increase cooperation in physics research the NAS proposed that joint working groups, where parties of scientists from both countries would visit the other country for periods of months and collaborate on research projects, be established. Preliminary inquiries

indicated that the Soviets would approve of this proposal. However, when a formal proposal was made by the U.S. Academy, the Soviet Academy replied that they preferred to continue the joint symposia and had no interest in participating in a joint working group.

In the program established as a result of the Nixon-Brezhnev agreements, four working groups were set up to address the following four areas:

(1) Science Policy, (2) Manpower and Education, (3) Funding of Science and Technology, and (4) Management of Science and Technology. There has been a preliminary exchange of draft reports in these areas. Dr. Robert Liimetainen reported that there are agreements covering eleven areas of science and technology. One operational activity is in the process of emerging from these agreements, and it has to do with long-range weather forecasting and weather modification.

7. XV General Assembly of IUPAP, Munich, FRG, September 24-28, 1975. The following were nominated by the Committee as delegates to the XV General Assembly:

Delegates

Dr. D. Allan Bromley, Chairman
Dr. Robert F. Bacher
Dr. Sanborn C. Brown
Dr. William W. Havens, Jr.
Dr. Lewis Slack

Alternate Delegates

Dr. Melvin Gottlieb
Dr. Frederick Seitz

These nominations were forwarded to the NAS for appointment.

The Committee recommended that D. Allan Bromley be nominated as a Vice-President of IUPAP. This recommendation was forwarded to IUPAP for their consideration.

In reviewing the various nominations for Commission members, it was recommended that the USNC-IUPAP suggest two names for each Commission for consideration by IUPAP, even though by IUPAP statutes members of each Commission (excluding Chairman and Secretary) must all come from different countries. The nominations approved by the Committee are in Appendix B.

Dr. Lewis Slack reported that he had conveyed the Committee's approval of the proposed increase in the unit share of the IUPAP subscription from \$300 to \$400.

8. IUPAP Conferences in the U.S.. The list of IUPAP conferences in the U.S. for 1974 through 1976 was reviewed by the Committee. There were no new conferences to be added to the list, however, a change in the location of the International Conference on Teaching Physics for Related Sciences and Professions, from the University of Washington to SUNY, Stony Brook, N. Y. was noted. All U.S. conferences for 1976 listed in the Agenda were approved by the Committee.

9. IUPAP Conferences in Other Countries. The Committee had no comments regarding the list of IUPAP conferences in IUPAP News Bulletin 75-1. The Chairman called attention to the first bulletin on the First International Conference on Physics in Industry, Dublin, Ireland, March 9-13, 1976, which is being sponsored by IUPAP. If this conference is successful, it might lead to the establishment of a Commission on Applied Physics. The USNC-IUPAP Staff Officer will obtain additional copies of this first bulletin and distribute them to members of the Committee and to Chairmen of the APS divisions.

10. Requirements for IUPAP Sponsorship of Conferences. The Committee discussed problems that they had encountered in connection with international

conferences. From these discussions it was agreed that a list of requirements for IUPAP sponsorship of conferences should be prepared.

The Chairman requested that the members prepare and send specific suggestions on requirements to the Secretary, Dr. Slack, with a copy to him, within the next few weeks.

Preliminary suggestions proposed at the meeting were as follows:

- a. Pre-conference Notice - A minimum time period should be specified between the first formal announcement and call for papers and the scheduled date of the conference to permit participants sufficient time to obtain visas and make other arrangements to attend.
- b. Arrangements prior to conference - complete information on scientific sessions, accommodations, tours and spouses program should be provided.
- c. Visas - the host country should issue a statement that visas will not be refused, purely on the grounds of nationality or citizenship. If qualified scientists are refused a visa or are not permitted to participate in IUPAP sponsored conferences, the facts will be reported to IUPAP. If it is determined that they were refused a visa or not allowed to attend because of nationality or citizenship, this information will be sent to all IUPAP Commissions with a recommendation that no conferences be held in that country, unless they can show that they have changed their policy and can guarantee participation by all qualified scientists.

- d. Conference Proceedings - when the proceedings are published as a unit, they should be in a regular or special issue of a journal or in a book which will be made widely available through established channels.

11. Character of IUPAP Conference - Open or Closed. The Committee discussed the advantages and disadvantages of having open and closed IUPAP conferences. Opinions were divided, but it was agreed that the USNC-IUPAP should recommend that, where possible, conferences should be open. The following resolution was adopted by the USNC-IUPAP:

"The USNC-IUPAP recommends that the IUPAP Commission Conferences be open, when possible, and that where it does seem necessary to restrict the attendance, the participation from the host country be reduced first."

12. Free Circulation of Scientists. The Committee reviewed and discussed the ICSU resolutions on the free circulation of scientists, and in particular, the resolution adopted in September 1974. At the conclusion of these discussions, the USNC-IUPAP adopted the following resolution:

"The USNC-IUPAP recommends that IUPAP continue their practice of obtaining an assurance in writing from the organizers in the host country that visas will be granted to bona fide scientists to attend IUPAP conferences if proper applications are made."

[For information, the present IUPAP policy requires the host country to declare in advance that individuals will not be excluded from a IUPAP sponsored meeting solely on the grounds of national origin. See IUPAP General Report 1973, pp. 113, 116.]

13. NAS Resolution Regarding UNESCO. The NAS adopted a resolution at its meeting on April 22, 1975 regarding recent political actions of UNESCO which have denied states the opportunity to participate fully in the work of UNESCO (see Appendix C). This resolution has been forwarded by the President of the Academy to the Director General of UNESCO, the Secretary of State, the Speaker of the House of Representatives and the President of the Senate.

14. Commission on Publications. Dr. Simon Pasternack, Chairman of the Commission on Publications, briefly described the activities of the Commission, which has been relatively inactive, and asked the Committee for advice on what they thought the Commission should be doing and whether or not the Commission should be disbanded. The USNC-IUPAP thought it was not appropriate for it to comment on the disbandment of the Commission. It was suggested that the Commission could establish some guidelines for publication of proceedings, and could offer advice and assistance to organizing committees of IUPAP conferences regarding the publication of proceedings.

15. The meeting adjourned at 3:50 p.m..

April 18, 1975

U.S. National Committee for IUPAP

Reports for Meeting of
April 30, 1975I. Financial Reports.

A. Supplementary report on expenditures for the IUPAP XIV General Assembly:

Balance General Assembly Account, 3/31/75	\$14,433.17
Interest on Investment	1,414.96
Expenditures (mailing audio-cassette albums, correspondence)	(-) <u>107.96</u>
Total	\$15,760.17

This completes all the work in connection with the XIV General Assembly of IUPAP except for some small expenditures this month in mailing some complimentary copies of the audio-cassette albums. The funds remaining are available for use as directed by USNC-IUPAP. \$15,000 of these funds are in an investment fund. See previous financial reports for detailed information on receipts and expenditures.

B. Support of Activities of USNC-IUPAP.

The activities of the USNC-IUPAP are supported by NSF Task Order 40, which is administered by the Commission on International Relations. 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. 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 total of 2,055 copies of Physics 50 Years Later were printed; of these, 500 were distributed as indicated above by the USNC-IUPAP, 846 were sold by the Academy's Printing and Publishing Office (27 copies were sold last month), and 70 complimentary copies were distributed by the PFO. This leaves 639 copies available for sale, at a cost of \$11.00 each.

Brochures describing Physics 50 Years Later were sent out to over 7,500 individuals and libraries. Many of the 70 complimentary copies of the book were sent to reviewers. The following four recent reviews appeared in the journals indicated:

<u>Journal</u>	<u>Issue</u>	<u>Reviewer</u>
Applied Spectroscopy	Vol 29, No. 1, 1975	John P. Unik
Technology Review	December 1974	Herman Feshbach
American Scientist	Nov./Dec. 1974	Frederick Seitz
Natl. Science Teachers Association	Feb. 1975	Edmund G. Geiger

Abstracts of the book and of some of the chapters were included in Nuclear Science Abstracts, August 15, 1974.

The Report of the Business Sessions of the XIV General Assembly was recently 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 have been put in an audio-cassette album by the American Association for the Advancement of Science. The album, titled, The Physical World, consists of six cassettes and a booklet containing reproductions of many of the illustrations used by the speakers in their original presentations. Price per album: \$64.95 to AAAS members, \$69.95 to non-members. The lectures reproduced are:

Optics, G. Toraldo diFrancia

Astrophysics, Fred Hoyle

Spectroscopy and Molecular Structure, Gerhard Herzberg

Solid State Physics, John Bardeen

The Many Facets of the Nuclear Structure, Aage Bohr

Physics and Society, Hendrik Casimir

NATIONAL RESEARCH COUNCIL
ASSEMBLY OF MATHEMATICAL AND PHYSICAL SCIENCES

2101 Constitution Avenue, N.W., Washington, D. C. 20418

U.S. NATIONAL COMMITTEE FOR THE
INTERNATIONAL UNION OF PURE AND
APPLIED PHYSICS

7 May 1975

SUGGESTIONS FOR NOMINEES TO COMMISSIONS

<u>Commission</u>	<u>Nominee</u>	<u>Position</u>
2. S.U.N.	Simon Pasternack John P. Schiffer	Member Member
3. Thermodynamics & Statistical Mechanics	Herbert B. Callen Kenneth G. Wilson	Chairman Member
4. Cosmic Rays	C. J. Waddington P. Buford Price	Member Member
5. Very Low Temperature Physics	Michael Tinkham David O. Edwards	Member Member
6. Publications	J. A. Krumhansl Henry H. Barshall	Member Member
7. Acoustics	Ira J. Hirsh Robert T. Beyer	Chairman Member
8. Semiconductors	Evan O. Kane Marvin L. Cohen	Chairman Member
9. Magnetism	Mary B. G. Stearns Simon Foner	Member Member
10. Solid State Physics	Henry Ehrenreich Paul L. Richards	Member Member
11. Particles & Fields	Edwin L. Goldwasser Francis E. Low	Chairman Member
12. Nuclear Physics	Fay Ajzenberg-Selove Stanley S. Hanna	Secretary Member
13. Atomic Masses & Fundamental Constants	Barry N. Taylor Walter Benenson	Member Member
14. Physics Education	Anthony P. French Arnold A. Strassenburg	Chairman Member

<u>Commission</u>	<u>Nominee</u>	<u>Position</u>
15. Atomic & Molecular Physics & Spectroscopy	Benjamin Bederson G. King Walters	Chairman Member
16. Plasma Physics	Melvin B. Gottlieb Burton D. Fried	Chairman Member
Quantum Electronics (if approved)	Nicolaas Bloembergen Joseph A. Giordmaine	Member Member

OF

THE NATIONAL ACADEMY OF SCIENCES*

The world faces many problems--famine in the shadow of affluence, depletion of the natural resources of the planet, divergence of cultures and ambitions among nations. All threaten the future of mankind. Avoidance of a possible debacle of our civilization requires that, to the extent possible, these problems be engaged separately, since they cannot successfully be addressed together. The National Academy of Sciences must be especially concerned with those major questions which are most likely to be ameliorated by application of the natural and analytical human sciences. At this time there is grave danger that effective international collaboration in such areas may be impeded by failure to protect these activities from interference arising from political, economic and social forces which should be engaged independently.

Of all the specialized agencies of the United Nations, UNESCO is that most concerned with problems that are shared by and unite peoples of the world. It is also the most dependent on voluntary cooperation of individual experts for collaborative work in areas of great human value even while grave issues separating individual nations remain unresolved. The effectiveness of UNESCO is seriously compromised when it takes actions that are perceived as political among scholars, scientists and artists.

Unfortunately, UNESCO has been involved in such action against a number of individual nations. The most recent examples were resolutions of the 18th General Conference which excluded Israel from UNESCO's regional groupings and invited the Director General to withhold assistance from Israel in fields of education, science and culture.

Serious breaches of the spirit in which UNESCO was founded may engender both public and personal reactions. The former is exemplified by withholding by member nations of financial support or other governmental participation. In their personal reactions, individuals, acting freely in accordance with their own consciences, may retreat from participation in international works or they may seek mechanisms other than UNESCO for contributing their talents to alleviation of world problems.

Both public and private withdrawal of support will endanger those programs of UNESCO directed toward such worldwide problems as reduction of illiteracy, provision of access to needed educational opportunities, creation and dissemination of scientific

*Approved by unanimous vote of members present at the Business Session of the National Academy of Sciences on Tuesday, April 22, 1975.

knowledge, preservation of cultural heritages and cultivation of the artistic and creative potentials of all peoples. Regrettably, it is the peoples of the less developed countries who must be most seriously affected by failure of these programs.

THEREFORE, the National Academy of Sciences

1. Reaffirms its belief in the purposes of UNESCO and, despite clear and evident problems, believes that the goals merit continued effort by the Academy in cooperation with others to make it possible for UNESCO to fulfill the functions for which it was created.
2. Regrets the several actions of the General Conference of UNESCO which have denied states the opportunity to participate fully in the work of UNESCO.
3. Urges the Director General of UNESCO to make use of the authority of his position to achieve full participation of all member nations in the work of UNESCO.
4. Urges the United States Government to exert every effort to reverse the trend toward dissipation of the potential for service of UNESCO to the people of the world.

IUPAP

D R A F T

The IUPAP Commission on Particles and Fields met at Stanford during the Lepton-Photon Conference on August 25, 1975. Present at the meeting were: J. Ballam, G. Ekspong, E. Fowler, E. L. Goldwasser, H. Harari, P.S. Isaev, H. Joos, W. K. H. Panofsky, D. Reeder, G. Salvini, N. Samios, G. Stafford, G. Takeda and the Chairman of the Commission, Chen Ning Yang.

The Chairman opened the meeting by stating that of the eight agenda items, items 4 and 6 would receive the major attention. The agenda is as follows:

1. Approval of the minutes
2. Report on past and future conferences funds and finances
3. Report on present conference
4. Report on the 1976 Conference at Tbilisi
5. Future conferences
6. Open conferences
7. Some problems about visas
8. New items.

1. Approval of the minutes of the meeting at the London Conference. The minutes were approved without awaiting formal approval.

2. Report on past and future conferences - funds and finances. It was noted that those conferences which had been discussed at the London meeting had taken place as approved. At this point two future conferences were noted: one at Vanderbilt University on new particles, searches and discoveries, described in a letter from Panvini, to be held in the spring of 1976, with 200 possible attendees. Funds are requested in the amount of \$2,000 from the Commission. The second future conference noted was a proposal for IUPAP to sponsor a conference in Delhi, India on few-body problems, to be held in January of 1976. The Chairman stated that IUPAP already has commitments to sponsor a conference in Tokyo in 1978 and the USSR conference in 1976.

The following financial situation exists:

1973 Grants	\$3,000
London Conference	3,000
SLAC Accelerator Conference May 1974	2,000
Neutrino Conference in Hungary (1975?)	1,000
Lepton-Photon Conference SLAC, 1975	2,000
Los Alamos Conference 1975	<u>500</u>
	\$11,500

Out of \$12,000 \$500 remains and the Chairman stated that this had been more or less earmarked for people to attend the SLAC Photon-Lepton Conference. However, he said that the Commission had not heard from Mr. Kerwin who had requested this. Dr. Ballam said that there was money to support a physicist attending the SLAC Conference from Nigeria and he presumed that this was the Commission's remaining \$500.

The Secretary, Dr. Salvini, noted that \$708 had been transmitted to him from Bob Walker, the retiring secretary. This is in a Swiss bank account.

The Chairman, Dr. Yang, reported that there was a letter from the IUPAP General Commission requesting that proposals for conference support should be in by August 15 of the year preceding the conference.

3. Report on Present Conference. The Chairman noted that the Lepton-Photon Conference in process is a very good one and had been very well organized. He gave special thanks to J. Ballam and W. Panofsky as organizers and hosts. Dr. Ballam was asked to give some comments on organizing the Lepton-Photon Conference. He distributed an Interim Report on the conference which he went over with the group (attached).

Dr. Ballam expressed particular concern that small, undeveloped countries were not participating to any extent and felt that their participation may in fact wither away in time.

Dr. Ballam stated that representation from the Soviet Union and other eastern European countries seems to be decreasing. He felt some effort should be made to determine the cause. It was stated by others in the group, however, that the USSR had sent a cable stating that 13 people would be attending the conference and that out of this number 11 were present.

Dr. Ballam also stated that the computer had been used extensively during the organization of the symposium so that they have a continuous record of all organizational matters.

At this point Dr. Isaev asked that the figures on attendance by the USSR be changed to show that 9 were present from the USSR and 2 from Dubna, rather than 11 from the USSR. He also asked that the last four lines of Professor Ballam's Interim Report be deleted, which concerned representation at the conference by the Soviets. Chairman Yang stated that the Interim Report was written as a free comment by Professor Ballam and that it was up to Professor Ballam whether he wanted to change his report. Both Dr. Ballam and the Chairman pointed out that this comment was a statement of regret that there was not more USSR participation and not intended as a derogatory remark. Dr. Isaev stated that this was not a subject for discussion at the meeting.

Dr. Stafford suggested that the sentence be changed to "The USSR and the Eastern European countries did not fill their quota." Dr. Panofsky pointed out that since the title of the present conference was changed to Lepton-Photon Conference, and since neutrino work was going on in the USSR, that comparison with Soviet attendance at the Bonn conference was possibly not reasonable.

The Chairman pointed out to Dr. Isaev that all that was said was in a friendly spirit by all concerned; he asked that Dr. Ballam change the last four lines of his report. Dr. Ballam agreed to do so.

With reference to page 3 of the Interim Report, the Chairman stated that they should possibly consider an increase in financial help to participants coming from less wealthy countries. However, he stated that this should be carefully considered and either discussed at another meeting or within each country, and then IUPAP could perhaps be asked to contribute funds. At this point the Secretary pointed out that Nigeria, for instance, has 70 million people and 6 universities and will eventually have 10 universities. Dr. Joos said perhaps organizers of future conferences should approach government institutions to get some money to support them.

4. Report on the 1976 Conference at Tbilisi. Dr. Isaev was asked to comment on the 1976 USSR conference in Tbilisi as to time, place, invitation quota, speeding up of publication of proceedings, and financial support.

Dr. Isaev said the conference was to be July 15-21, 1976 in Tbilisi, Georgia, USSR. The number of participants were to be distributed as follows:

USA and Canada	140
CERN and CERN member states	140
Others (non-Dubna)	70-80
USSR and Dubna countries	400-450

making a total of about 800. He stated that the list of participants should be sent by January of 1976.

Dr. Isaev said there was a possibility of publishing the Proceedings within 5-6 months after the conference. The Chairman said the Proceedings are the most important part of the conference and should be published as quickly as possible after the conference. Last year there was discussion as to how they could help to speed this up. Professor Yang asked whether the organizer of the 1976 USSR conference has made specific efforts to ascertain whether the Proceedings will be speeded up. Dr. Isaev showed the Chairman a cable from CERN to the USSR replying to a verbal request for help from CERN by Dr. Cherpukov (?). The cable was signed by Mr. Hampton of CERN and stated that CERN will be happy to help with advice but could not give material assistance. The Chairman then read pertinent parts from the minutes of the London meeting regarding Proceedings for the USSR conference where it was suggested that they make use of the North Holland Press, that rapporteurs should, perhaps, stay on longer after the conference to expedite work on the chapters, that secretaries work together - 1 Soviet secretary and 1 English-speaking secretary - it was mentioned that CERN could be of help here. At this point Dr. Ekspong said he did not believe there were any CERN participants at the London meeting.

Dr. Stafford said it is very important to identify what was actually said at the London Conference. He said the Russian organizers were placed in a very difficult situation by having English papers which their people would have to prepare for publication and that it was hoped that the English papers would be prepared by CERN. The Chairman asked that the problems the Soviets may run into be identified in case the Commission could help. Dr. Isaev said that the Proceedings will be published 4-5 months after the conference with other help (e.g. Czechoslovakia).

The Chairman said if English-written papers are presented in clean form by the authors they can sometimes be reproduced without retyping. There was discussion of this procedure at other conferences and it was concluded that this would work but that you can't depend on its happening. The discussion turned back to the rapporteurs staying on after the conference to expedite work; Dr. Isaev said this could be arranged.

In the matter of financial support for the conference Dr. Isaev said that \$3,000 would probably not be enough. The organizing committee had considered this question and arrived at \$8,000 as a suitable sum but that this was clearly not feasible; however they would like the amount increased to \$6,000. The Chairman proposed that the financial support situation be discussed with Item 5.

The chairman stated there would be no dinner until the quota question was settled. He noted that the total quota number is not too different but that the USSR and Dubna participation is larger. Isaev was asked the reasons for this proposal of quota change. Isaev said that this was a calculation, but that in January of 1976 when they get lists from other countries they will consider the numbers. The Chairman pointed out that this is not the way the rules go - the Commission decides the rules and traditions of quotas.

Dr. Panofsky said he feels there might be a good reason for the CERN and CERN member countries quota to be larger than the U.S because the population of physicists in CERN countries is larger than the U.S. and also the matter of proximity and travel costs for CERN physicists would have bearing on attendance. From the standpoint of money the U.S. would have trouble sending its quota.

Dr. Harari commented regarding traditions: In the past Canada was not in the U.S. quota of 160. Also Israel was not one of the CERN countries. The CERN countries had 160 without Israel. He suggested that Canada and Israel be returned to their original 4th region.

Dr. Goldwasser read the quotas for 1972 as a comparison with the London Conference quotas. The Chairman said that apart from what Dr. Panofsky had proposed they should start from the usual quota rules:

USSR and Dubna	400
CERN and member states	160
USA and Canada	160
4th Region	100

Dr. Stafford said he thought the quota should be left as it was; Drs. Panofsky and Joos said perhaps the U.S. quota should be lowered a little and added to CERN. Dr. Isaev said he would prefer an equal number for CERN and the USA so there is no discrimination. Dr. Harari suggested that Canada be moved to the 4th Region and leave the U.S. quota at 140. The Chairman asked Dr. Takeda if the Japanese quota is still adequate; Dr. Takeda confirmed that it is.

Dr. Panofsky proposed that the quotas be left as before with the only exception being an increase to 180 for CERN and a decrease to 140 for the U.S. & Canada. Dr. Harari proposed 400 for USSR and Dubna countries, 180 for CERN and member states, 140 for the U.S. only and 100 for the 4th region. Seven of the group voted for Harari's proposal and it was accepted.

The group adjourned to the Faculty Club for dinner.

The quota question was brought up again. Dr. Ekspong asked whether they should go further and divide up specific quota assignments within the group. The Chairman proposed that a subcommittee be appointed to divide each large section into quotas. Dr. Stafford said he thought the best procedure was to have the organizers make a proposal. The Chairman said perhaps a subcommittee should be appointed to present something to the group tomorrow. The Secretary proposed the

following subcommittee: Chairman Yang, Dr. Isaev, Dr. Goldwasser, Dr. Stafford and Dr. Salvini. This was agreed on and the group will meet on August 26 for further discussion of quotas. The USSR organizers are headed by Dr. Bogolyubov, Chairman and Dr. Tavkelize, Vice-Chairman.

6. The Chairman asked Dr. Reeder to give the views of the APS Division of Particles and Fields on open conferences. Dr. Reeder read from the DPF Executive Committee's letter to Professors Yang and Goldwasser/^(attached)regarding this matter. He emphasized some points of the letter strongly. He stated that conferences act as the primary goal for the completion of new and original work and in that sense open sessions act as a goad to spur on the work for international conferences. He stated that the very atmosphere of a conference is desirable for all physicists and that the rapporteur aspects provide a goal for planning in the field. He emphasized that since the meetings tend to be restricted to more senior members there is a lack of contact with the younger physics community. He stated that the APS DPF group had sent out a questionnaire within the U.S. regarding the London Conference in which they asked the size of the group, the number of delegates sent to the London Conference, the number which would have been sent to the conference had it been an open one, the number which would have been sent to the London Conference if the funds available provided only partial expenses, etc. From this questionnaire they ascertained that the delegation would have increased by about 50%; instead of about 800 attendees there would have been from 1200 to 1250. The Nuclear Physics community has about 1250 attendees at its conferences and these are open. He also pointed out that there were facilities adequate for this number in the U.S. The letter emphasized that travel funds would be no better and possibly worse but perhaps only partial support for members of so large a group would be necessary; also that charter flights could be used more extensively. In the United States in the Division of Particles and Fields of the APS, 90% were in favor of open conferences.

There was general discussion of Dr. Reeder's letter and comments. It was noted that 800 already exceeds a good working conference but that large conferences provide a focus which should be available in the broadest sense to the physics community. Also international and social contacts are desirable. There was comment that perhaps part of such a large conference could be by invitation and the rest thrown open.

The Chairman noted that the APS letter arrived too late for the Commission to have a chance for a discussion on this document. He further stated that it could not possibly be instituted before 1978.

There was further discussion: Dr. Joos felt it should be left to the organizers of the conference as to whether it should be an open one; Dr. Ekspong feels there are two things to be considered: the size of the conference (go to 1250 but keep it invitational) and if the conference is this large there may be many who will not be interested in attending. Dr. Harari feels there is some necessity to open the conference because of quotas and small countries; he feels there are reasons to qualify this (1) the necessity of having official invitations in some countries, (2) to absolutely limit in advance the size of the conference, and (3) a conference does not have the international character of the present conferences if there is an over-balance of one country. There should perhaps be 600 or 700 decided by quota and perhaps 300 open seats at the conference to be on a first-come-first-serve basis. Dr. Ballam noted that this was essentially what the present Lepton-Photon Conference tried to do.

Dr. Salvini noted that selection is very important; the rich countries would be able to pay the expenses of more than the poorer ones and there may be a confusion with democracy and aristocracy. He feels the quota number has to be maintained for reasons of democracy. Dr. Panofsky worried about Harari's point that the meetings would become less international. It was also noted that an open conference is not necessarily going to solve the problem of younger people attending meetings. Dr. Samios said the national laboratories and universities are not the ones who suffer - it is the smaller institutions.

Dr. Stafford said the issue was two-fold: (1) by fixing the number at 800 are you restricting a Rochester-type meeting to too small a group, should it be 1200? If you really have an open meeting you may go to 2,000. (2) when you have a small country (in area) you have a reasonable way of making a selection but in a large country like the U.S. it is harder to have a sensible way of having the quota filled.

Dr. Goldwasser noted that the nomination of delegates is now in the hands of physicists. With the new approach funding agencies will control the selection. He said he did not see why the degree of control should be risked - the physicists are the right ones to make the selection.

The Chairman stated that he has asked the people who participate in very large international conferences and has come to the conclusion that there is something unique about the Rochester conferences; they have a limited field and want to maintain unity of the field. What has been successful is largely due to the fact that this arrangement is foremost in the organizers' minds. Different countries have different problems and he cautioned against rushing to a dramatic change where there is a point of no return.

7. Some Problems about Visas. Dr. Harari said that in view of the problems with the host country issuing invitations and visas to participants that the Commission should fix a date to which visas will be issued to participants, possibly two months before that.

Dr. Isaev said this should not be only the Soviet Union but all countries. Everyone agreed that this was so. The Chairman said that each country should urge its State Department to cooperate on the visas. Dr. Stafford suggested the following wording: "The Chairman of the Organizing Committee of the host country of the IUPAP-sponsored conference should ensure that all steps are taken to enable visas to be issued well in advance of the conference (hopefully 4 weeks), provided that applications are received with sufficient lead time."

8. New Items. The Vanderbilt Conference was again mentioned. A Lepton-Photon Conference was proposed to be held at DESY in two years in 1977. The next High-Energy Physics Accelerator Conference was proposed in Leningrad to be held June-July 1977. It was decided to take no formal action on these but to ask the organizers to submit the formal requests for the DESY and Leningrad Conferences. Also an instrumentation conference should be considered. In light of these conferences the proposal to go over the \$3,000 limit for the Tbilisi conference was carefully considered. Dr. Goldwasser proposed that they give \$3,000 each to the USSR and to Japan but if IUPAP increases the \$12,000 amount by, say, \$2,000 more, that is to \$14,000, then the funding to the USSR and Japan could be increased to \$4,000 each instead of the \$3,000. This proposal was agreed upon.

The meeting adjourned.

XV GENERAL ASSEMBLY

INTERNATIONAL UNION OF PURE AND APPLIED PHYSICS

ORGANIZED IN COOPERATION WITH THE GERMAN NATIONAL COMMITTEE OF PHYSICS



Herrn

R.Y. Dow

Division of Physical Sciences
National Academy of Sciences

2101 Constitution Ave. N.W.

Washington, D.C. 20418

USA

MUNICH
FED. REP. OF GERMANY
SEPTEMBER 24-28, 1975

For National Committee Members of IUPAP

ANNOUNCEMENT

January 1975

The XV General Assembly of the International Union of Pure and Applied Physics is to be held at the Bavarian Academy of Science in Munich (FRG) from September 24 through 28, 1975. Arrangements for the Assembly are done in cooperation with the German National Committee of Physics for IUPAP. Attached you like to find a preliminary program.

National Committees are requested to provide names and addresses of their delegates and guests to

German National Committee of Physics
c/o Deutsche Physikalische Gesellschaft
D-5300 Bonn-Bad Godesberg 1
Gotenstraße 1-3, Germany

Your reply by April 1, 1975 at the latest is needed. The Arrangements Committee wishes to send the final announcement, including the schedule, program, and registration forms (providing details on registration, travel, accommodations, visa information etc.) to all delegates and guests in April 1975.

Sincerely yours
Arrangements Committee

Enclosure: Preliminary Program

Preliminary Program of the XV General Assembly of IUPAP

Munich, FRG



Wednesday, September 24, 1975

Morning: Registration of and Information for Participants
Executive Committee Meeting I (Special Invitation)

Afternoon: Registration of and Information for Participants

Evening: Welcome
Scientific Lecture I
Reception

Thursday, September 25, 1975

Morning: General Assembly I

Afternoon: General Assembly II

Evening: Tour "Oktoberfest"

Friday, September 26, 1975

Morning: Scientific Lecture II
Scientific Lecture III

Afternoon: General Assembly III

Evening: Scientific Lecture IV

Saturday, September 27, 1975

Morning: General Assembly IV

Noon: Executive Committee Meeting II (Special Invitation)

Afternoon: Tour "Nymphenburg Castle"

Evening: free

Sunday, September 28, 1975

Morning: Tour "Free and Easy Meeting of Participants"

Noon: End of Program

UNIVERSITY of PENNSYLVANIA

PHILADELPHIA 19174

The College

DEPARTMENT OF PHYSICS

To: Members of USNC-IUPAP
From: Herbert Callen
Date: 11 February 1975

*Vicki:
This revision is a consequence of
a conversation with Allan Bromley, in
which he told me of your conversations
for the Goldwasser Resolution. I will
concede to that preference, and I hope
that the compromise achieves a
resolution with which
we can all be
reasonably
happy.
Thanks!
Herb.*

Please bear with me for one more brief note re UNESCO.

Ned Goldwasser has proposed the enclosed alternate resolution, replacing that which I circulated previously. Allan Bromley and Victor Weisskopf endorse this substitute resolution.

As you see, the alternate resolution does not invoke our association with IUPAP in any way.

In the interests of maximum concensus I defer to Ned Goldwasser's version. I hope that those who subscribed to the original version will agree to this version, and that it will also attract the support of those who share Goldwasser's, Bromley's, and Weisskopf's objections to invoking IUPAP.

Please respond, either positively or negatively.

Cordially,

Herb

Dear Herb:

I subscribe to the Goldwasser Resolution.

I do not wish to subscribe to the Goldwasser Resolution.

Please sign with the affiliation you wish to cite on the Resolution:

Name

Affiliation

RESOLUTION

As members of the international community of educators and scientists who are deeply dedicated to the goals of the United Nations and to the principles of international cooperation and free exchange in the areas of education, science and culture, we condemn the politicization of UNESCO, the United Nations Educational, Scientific and Cultural Agency. The tradition of non-political international scientific cooperation has apparently been flouted by a coalition of anti-Israel nations. These states have excluded Israel from the regional groupings to which UNESCO international activities are organized, and they have terminated UNESCO support for educational, scientific and cultural projects within Israel.

We deplore this betrayal of the fundamental principles of UNESCO. We shall cooperate with international agencies which cherish and protect the non-political tradition of science.

Signed by the following as individuals:
(affiliation for identification only)

Edwin L. Goldwasser
Edwin L. Goldwasser
Fermi National Accelerator Laboratory
and University of Illinois

October 15, 1975

Dr. Larkin Kerwin
Bureau du Recteur
Universite Laval
Quebec, P.O. CANADA

Dear Lark:

Here are the addresses that you asked for:

Dr. William A. Nierenberg
Scripps Inst. Oceanography
La Jolla, California 92037

Dr. Falk-Vayrant
NP Division
CERN, 1211 Geneva 23
SWITZERLAND

You have spelled the name of the first man different and I am therefore not sure we mean the same individual.

Also, I must correct your statement in your letter. I did not suggest Nierenberg but I did suggest Falk-Vayrant (Falk is not his first name -- it is a double name and I don't know his first name).

With best regards,

Sincerely yours,

Victor 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
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, October 8, 1975.


Prof. V. Weisskopf,
Department of Physics,
Massachusetts Institute of Technology,
Cambridge, Mass. 02139, USA.

Dear Vicki:

Could you please let me have the address
of Dr. William NEUREMBERG whom you suggested as our delegate to SCOR?

We are also looking for the address of
Dr. F. VAYRANT from Switzerland (Commission on Particles and Fields).

Cordially yours,



Larkin Kerwin

LK:cgb

10 P 4A

NATIONAL ACADEMY OF SCIENCES
NATIONAL RESEARCH COUNCIL

2101 Constitution Avenue Washington, D.C. 20418

COMMISSION ON INTERNATIONAL RELATIONS

March 20, 1975

MEMORANDUM

TO: U. S. Officers of the ICSU Unions
FROM: Thomas F. Malone, Chairman *TFM*
Board on International Organizations and Programs (USNC/ICSU)

As a principal Officer of one of the Member Unions of ICSU, I thought you would be interested in seeing the attached copy of Dr. Harrison Brown's letter to the Presidents of the Unions reaffirming ICSU's principle of universality and political non-discrimination. I am sure Dr. Brown would be grateful to receive any comments you may have on the views expressed.

Enclosure

W
W

INTERNATIONAL COUNCIL OF SCIENTIFIC UNIONS

President :
Prof. Harrison Brown
c/o National Academy of Sciences
2101 Constitution Ave.
Washington D.C. 20418

March 17, 1975

Professor F. Lynen
President IUPAB
Max Planck Institute fur Biochemie
8033 Martinsried b/Munchen
Munchen
B.R.D.

Dear Professor Lynen:

In light of the increasing political pressures being felt by international nongovernmental organizations, I thought it would be helpful to share some thoughts with you and in turn to solicit your views.

As nongovernmental organizations, ICSU and the Unions are concerned with advancing the various scientific disciplines for the benefit of all peoples through international cooperation. Over the years they have established a far reaching pattern of cooperation and trust transcending the political barriers that divide the world.

I personally feel that one of the great strengths of ICSU lies in the fact it is deliberately and traditionally a non-political organization which embraces the key principles of universality and political non-discrimination. Over the years ICSU, with the unanimous support of the Unions, has passed several resolutions (see attached copies) to emphasize its non-political tradition. Because of this, at an Extraordinary General Assembly held in 1972 the ICSU Statutes were amended to include a provision concerning the non-discriminatory philosophy of ICSU which states in part that ICSU "... shall observe the basic policy of non-discrimination 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...".

Achieving full participation and membership of colleagues in the People's Republic of China in ICSU and the Unions is a goal I am sure we all share. In fact, I can say with all sincerity that no single accomplishment during my Presidency of ICSU would give me more satisfaction than to bring the great body of Chinese scientists into ICSU and I am striving actively to achieve this by all proper means. But I also feel strongly that we would do ICSU and the Unions irreparable harm in the long run if we were to violate our principle of universality and our non-political character by casting out one of our members as a political precondition to another's applying for membership.

..

page 2
Professor Lynen
3/17/75

I believe it is proper, however, for ICSU or a Union to insist that a National Member not pretend to represent scientists in geographical areas over which it has no effective control. As you may know, when I visited Taiwan last year for discussions of this question, it was formally stated by the President of their Academy that "...insofar as ICSU and its unions were concerned, the scientific community and the scientific endeavor represented by the Academia Sinica are only those in the geographic area coextensive with that under the effective administration of the Republic of China."

As I perceive it, there are in fact two separate scientific communities, one on the mainland and one on Taiwan. Membership in ICSU and the Unions is institutional and usually the scientifically separate areas represented by these institutions are countries but this is not a necessity. As China and Taiwan at present have no common scientific societies, budgets or travel facilities between their respective territories, there is no reason, as far as ICSU is concerned, why they cannot both be members. In this regard it is important to note two passages of the 1958 Resolution:

"Such adherence or association has no implication with respect to recognition of the government of the country or the territory concerned."

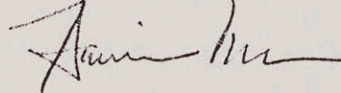
"Subject only to payment of subscriptions and submission of required reports, the ICSU is prepared to recognize the academy, research council, national committee, or other bona fide scientific group representing scientific activity of any country or territory acting under a government de facto or de jure that controls it."

In the months ahead, I believe we must all work together to achieve full participation by scientists all over the world and I am confident a way will be found to realize this without our abandoning our basic principles. At the same time we must exert a greater effort toward convincing governmental and intergovernmental organizations which attempt to use ICSU for political ends of the soundness of those principles and our evenhandedness in our applications of them.

page 3
Professor Lynen
3/17/75

I have given much thought to this critical problem and would
very much value receiving yours.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "Harrison Brown".

Harrison Brown
President

cc: Secretaries General of Unions
ICSU Officers, General Committee
ICSU Committees, Commissions
Scientific Associates

Identical letter sent to all Presidents of ICSU Unions

INTERNATIONAL COUNCIL OF SCIENTIFIC UNIONS

RESOLUTION ON THE FREE CIRCULATION OF SCIENTISTS

The XV General Assembly

8. Having been informed of a number of cases in which bona fide Scientists from National adhering bodies of the International Scientific Unions had recently been prevented from attending symposia organized or sponsored by these Unions through a refusal to grant entry visas and,

Recalling the earlier decisions taken by the ICSU emphasizing the right to free movement of scientists in this connection,

Draws the attention of the individual scientific unions and other ICSU bodies to the following guidelines and recommends their adoption:

- i) Before Symposia or meetings are arranged:
 - a) an assurance in writing should be obtained from the organizers in the country concerned that visas will be granted to bona fide scientists if proper applications are made, and
 - b) the unfortunate consequences which may arise through failure to grant visas should be communicated to the organizers of the symposia or meetings involved,
- ii) The procedure recently adopted by the IUPAC is commended for observance by other unions, namely:
 - a) that applications for visas where necessary should be made to the appropriate authorities not less than three months before the date of the symposium or meeting, and if these visas are not granted or promised in writing one month before the date of the event, sponsorship should be withdrawn, and,

- b) Arrangements for future meetings in any country found unable to comply with these principles should be suspended until more satisfactory circumstances exist,
- iii) National adhering bodies of the ICSU should urge the authorities in their countries to facilitate attendance and exit visas for scientists to attend such meetings in the same way,
- iv) Each Union or other ICSU body should inform the ICSU and its Committee on the Free Circulation of Scientists of cases in which withdrawal of sponsorship has become necessary so that other Unions may take this into account in making their own arrangements for meetings and symposia,
- v) The Chairman of the Committee for Free Circulation and the Secretary General of ICSU should maintain a record of cases reported, to which scientific unions and other ICSU bodies may refer.

INTERNATIONAL COUNCIL OF SCIENTIFIC UNIONS

AMENDMENT TO THE STATUTES

The Extraordinary General Assembly of the International Council of Scientific Unions, immediately preceding the XIV General Assembly at Helsinki, Finland, September 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 objectives the Council shall observe the basic policy of non-discrimination 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."

September 1972

INTERNATIONAL COUNCIL OF SCIENTIFIC UNIONS

RESOLUTION ON THE FREE CIRCULATION OF SCIENTISTS

The XIVth General Assembly

A. Recapitulates that the terms of reference of the Standing Committee on the Free Circulation of Scientists, as defined by the 10 General Assembly, are:

to assist the Executive Board to find solutions to various problems associated with the implementation of the resolution, according to which the declaration of "political nondiscrimination", adopted by the 8 General Assembly, is reaffirmed, and moreover, as resolved by the 10 General Assembly,

- in holding ICSU meetings and meetings of ICSU scientific and special committees, the Council shall take all measures within its power to ensure the fundamental right of participation, without any political discrimination, of the representatives of every member of ICSU concerned and of invited observers;
- this policy be adopted also by the Unions adhering to ICSU for all their activities;
- the ICSU National Members be invited to follow this policy.

Noting with satisfaction that ICSU, in executing its declared policy of supporting free international collaboration among scientists, has been successful in most cases;

Observes, however, 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;

Notes 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.

Fearing that the difficulties encountered by scientists from some countries, in gaining permission to travel freely to scientific meetings of the ICSU family in other countries or to participate in such appropriate meetings in their own country, might endanger the global character of ICSU and the Unions;

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;

Recommends that when consideration is being given to the selection of a place for an ICSU meeting the Standing Committee on the Free Circulation of Scientists shall, on request, provide summary information in its possession on previous cases of restriction relative to the proposed place of meeting.

B. Observes that recently considerable communication has been received by the Standing Committee on the difficulties encountered by some scientists wishing to migrate from their country;

Further observes that this form of "brain drain", that is, the migration of talent from developing countries to the industrialized ones, is of great concern to the developing as well as to developed countries, as illustrated among others by resolution 1.243 of the General Conference of UNESCO at its 16 session, in 1970;

Observing, moreover, 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;

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

Decides 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.

INTERNATIONAL COUNCIL OF SCIENTIFIC UNIONS

RESOLUTION ON THE NONPOLITICAL TRADITION OF ICSU

The International Council of Scientific Unions (ICSU) with its component Unions and committees, exists to promote active cooperation in scientific matters between scientists from all parts of the world, regardless of the political structure of their governments. To this end, there is a well-established agreement that scientific meetings shall not be disturbed by political statements or by any activities of a political nature. It is upon this understanding that ICSU has been able to exert considerable influence in order to ensure the free movement of bona fide scientists to attend scientific meetings anywhere in the world.

The Executive Committee of ICSU, unanimously, wishes to emphasize the importance of this agreement on the exclusion of politics and draws attention to the need of observing it at all times.

INTERNATIONAL COUNCIL OF SCIENTIFIC UNIONS

RESOLUTION ON FREE CIRCULATION OF SCIENTISTS

The Xth General Assembly

considering that ICSU has a declared policy of supporting free international collaboration among scientists, but

noting with regret, that there are still parts of the world where difficulties exist in the free passage of scientists, thus interfering seriously with the progress of modern science,

reaffirms the declaration on "political non-discrimination" adopted by the VIIIth General Assembly of ICSU in 1958,

resolves that, in holding ICSU meetings and meetings of ICSU Scientific and Special Committees and Inter-Union Commissions, the Council shall take all measures within its powers to ensure the fundamental right of participation, without any political discrimination, of the representatives of every member of ICSU concerned and of invited observers;

recommends that this policy be adopted also by the Unions adhering to ICSU for all their activities,

invites the ICSU National Members also to follow this policy, and

requests the Executive Committee to create a standing working group to assist the Officers Committee to find solutions to various specific problems associated with the implementation of this resolution.

November 1963

INTERNATIONAL COUNCIL OF SCIENTIFIC UNIONS

RESOLUTION ON POLITICAL NON-DISCRIMINATION

To ensure the uniform observance of its basic policy of political non-discrimination, the ICSU 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.

Such adherence or association has no implications with respect to recognition of the government of the country or the territory concerned.

Subject only to payment of subscriptions and submission of required reports, the ICSU is prepared to recognize the academy, research council, national committee, or other bona fide scientific group representing scientific activity of any country or territory acting under a government de facto or de jure that controls it [i. e. , the country or territory - Ed.]

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.

ICSU and its dependent organisms will take all necessary steps to achieve adherence to these principles.

14PAP

February 10, 1975

Dr. Herbert Callan
Department of Physics
University of Pennsylvania
Philadelphia, Pennsylvania 19104

Dear Herb:

I am afraid that your letter arrived during my absence when I was in Mexico for three weeks. My mail was in such a state that I can't find it. Would you please send me another?

With best regards,

Sincerely,

V. F. Weisskopf

VFW:dle

UNIVERSITY of PENNSYLVANIA

PHILADELPHIA 19104

The College

DEPARTMENT OF PHYSICS

7 Feb 1975

Prof. Victor Weisskopf
Physics - MIT

Dear Vucki:

Some weeks ago I sent you a statement of protest on behalf of individuals who are associated with USNC-IUPAP. Some 13 positive responses have been returned, and hopefully a few more will arrive shortly. I will release the statement soon. Do you wish to be included?

Sincerely

Herb Callen

April 29, 1975

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

Dear Larkin:

I have an invitation to go to China in September and I am very eager to accept it. It is very likely that I will be back in time for the General Assembly in Munich. I would like to know, however, whether we can schedule the meeting of the Executive Committee as late as possible during those four days. Please let me know so that I can arrange my travel schedule.

With best regards,

Sincerely yours,

V. F. Weisskopf

VFW:dle

IUPAP

NATIONAL RESEARCH COUNCIL

NATIONAL ACADEMY OF SCIENCES NATIONAL ACADEMY OF ENGINEERING

2101 CONSTITUTION AVENUE WASHINGTON, D.C. 20418

DIVISION OF PHYSICAL SCIENCES

Please reply:
American Institute of Physics
335 East 45th Street
New York, New York 10017

April 1975

To: Members of USNC/IUPAP
Presidents and Secretaries of American Association of
Physics Teachers, Acoustical Society of America and
Optical Society of America
Chairmen and Secretaries of the Divisions of The American
Physical Society

From: L. Slack

Colleagues:

The Chairman of the U. S. National Committee of the International Union of Pure and Applied Physics (USNC/IUPAP) has convened a meeting to be held on Wednesday 30th of April. A major item of the agenda will be the selection of names for nominations to the commissions of IUPAP so that these names can then be submitted to the IUPAP Secretary General by the 15th of May.

Last January and again last month the NAS staff officer for the USNC, Dick Dow, circulated to USNC members (and hence to all U.S. members of the several IUPAP commissions) requests for suggestions for nominees to the commissions and to the Executive Committee of IUPAP.

This is to reiterate his request to the USNC members and to request (or confirm requests already made) the officers of the American Institute of Physics Societies and Divisions of APS appropriate to the commissions that they submit nominations. Please send your suggestions using the enclosed form for nominations for U.S. members of the IUPAP commission to me by 15th of April with a copy to:

Mr. Richard Y. Dow
Staff Officer, USNC/IUPAP
National Academy of Sciences
2101 Constitution Avenue, N.W.
Washington, D. C. 20418

The Executive Committee of IUPAP

At the present time, there are two U.S. members on the Executive Committee of IUPAP, Viki Weisskoff who is a vice-president and Bob Bacher

April 1975

who is past-president. Bob Bacher's term automatically expires this year. Viki Weisskoff, likewise, is ineligible for another term. Since there has just been a U.S. president, it is unlikely that the U.S. have more than one person on the Executive Committee this next triennium. We should have a strong candidate for vice-president to recommend. Fred Seitz is Chairman of the USNC Nominating Committee which is, inter alia, to recommend to the USNC names for the vice-president. Send suggestions to him at Rockefeller University, 66th Street & York Avenue, New York, N. Y. 10021.

The Commissions

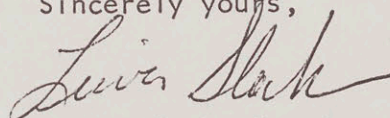
The objective of the USNC is to have at least one U. S. member on each commission, preferably one who is closely associated with the work of the corresponding society or of the appropriate Division of APS, e.g., the Acoustical Society for the Acoustics Commission, or the Division of Particles and Fields for the Commission on Particles and Fields.

Under the current regulations terms of individuals as members of the commission are limited to six years. Members serving their second three year term who are elected as chairman or secretary may serve an additional three years. The chart shows current members of the Executive Committee and the Commission together with their eligibility for re-appointment.

My own opinion is that it is desirable to have two U.S. scientists nominated for each commission, particularly those where there is a likelihood that one of them be the chairman for '75-'78. It is also true that any candidates will be in a much stronger position to be elected by the General Assembly if their names are supported by the commissions themselves (and by the appropriate society or society division) as well as by the USNC.

To repeat, please use the enclosed form and send it to me with a copy to Dick Dow so that the USNC may have the benefit of your thinking when making its recommendations to the IUPAP Executive Committee who in turn will place the names in nomination to the General Assembly in September for election. Those of you on the National Committee have already received copies of the nomination forms from Dick Dow. The Society officials are receiving forms for the first time.

Sincerely yours,



Lewis Slack, Secretary
USNC/IUPAP

LS:mn
Enclosures

U.S. Members of IUPAP Executive Committee
and Commissions
(1972-1975)

<u>Committee or Commission</u>	<u>Position</u>	<u>Name</u>	<u>Remarks</u>
Executive Committee	Past-President	R. F. Bacher	(66) (1)
Executive Committee	Vice President	V. Weisskopf	(69) (1)
S.U.N.	Member	H. C. Wolfe	(57) (1)
Thermodynamics & Statistical Mechanics	Member	H. B. Callen	(72) (2)
Cosmic Rays	Member	C. J. Waddington	(72) (2)
Very Low Temperature	Member	M. Tinkham	(72) (2)
Publications	Chairman	S. Pasternak	(66) (1)
Publications	Member	A.W.K. Metzner	(72) (2)
Acoustics	Member	I. Hirsch	(69) (3)
Semiconductors	Member	E. O. Kane	(69) (3)
Magnetism	Chairman	G. T. Rado	(66) (1)
Solid State	Member	H. Ehrenreich	(72) (2)
Particles & Fields	Chairman	C. N. Yang	(69) (1)
Particles & Fields	Member	E. L. Goldwasser	(72) (2)
Nuclear Physics	Secretary	J. L. Fowler	(66) (1)
Nuclear Physics	Member	F. Ajzenberg-Selove	(72) (2)
Atomic Masses & Related Constants	Chairman	E. R. Cohen	(66) (1)
Atomic Masses & Related Constants	Member	W. H. Johnson	(66) (1)
Physics Education	Chairman	W. C. Kelly	(66) (1)
Physics Education	Member	A. P. French	(72) (2)
Atomic & Molecular Physics	Chairman	L. M. Branscomb	(66) (1)
Plasma Physics	Chairman	S. C. Brown	(66) (1)
Plasma Physics	Member	M. B. Gottlieb	(72) (2)
Quantum Electronics	_____	_____	_____ (4)

Remarks: (__) Two digit number indicates year appointed to Executive Committee or Commission.

(1) Not eligible for reappointment.

(2) Eligible for reappointment as member or appointment as Secretary or Chairman.

(3) Eligible for appointment as Chairman.

(4) Proposed new Commission.

Form for suggesting the name of a physicist for consideration for filling
a vacancy either on the IUPAP Executive or on one of the Commissions

1. Name of National Committee or Commission or Society making suggestions
2. Suggested Office (for example position on Executive or position on a particular Commission)
3. Name of candidate (and title, e.g. Dr. or Professor)
4. Age
5. Present appointment
6. Full address
7. Brief biographical details of candidate, indicating expertise in physics (not more than 50 words)

8. Signed:

9. On behalf of:

Notes: Please send forms to the Secretary, USNC with copy to R. Y. Dow at NAS-NRC
Please complete a separate form for each name suggested.
Please complete in Typescript.
Please indicate clearly in (9) whether the form is signed on behalf of a
National Committee, a Commission, or other group.
Please indicate clearly in (2) whether suggested name is for a particular
office on Executive or on a Commission (e.g. for the latter Chairman,
Secretary or member).

March 31, 1975

Mr. Richard Y. Dow
Staff Officer, USNC-IUPAP
National Research Council
2101 Constitution Avenue, N.W.
Washington, D.C. 20418

Dear Mr. Dow:

I just received your letter telling me about the next meeting of the U.S. National Committee for IUPAP. I am rather unhappy about that date because I have long ago accepted a speaking engagement in Arizona for that day which I cannot change. Of course I could have guessed that the IUPAP meeting would be held during the Washington meeting of APS but I didn't think that far ahead when I accepted this obligation. I will have to rely on conversations with you and other members afterwards in order to get my instructions for the September meeting of the Executive Committee.

I assume that Alan Bromley is still the Chairman of the U.S. National Committee. I will get in touch with him about this point.

Sincerely yours,

Victor F. Weisskopf

VFW:dle

NATIONAL RESEARCH COUNCIL
ASSEMBLY OF MATHEMATICAL AND PHYSICAL SCIENCES

2101 Constitution Avenue, N.W., Washington, D. C. 20418

U.S. NATIONAL COMMITTEE FOR THE
INTERNATIONAL UNION OF PURE AND
APPLIED PHYSICS

March 25, 1975

MEMORANDUM

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

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

SUBJECT: Meeting, April 30, 1975, Washington, D. C.

The Chairman is convening a meeting of the U.S. National Committee for IUPAP on Wednesday, April 30, 1975, in Club Room A of the Shoreham-Americana 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, a IUPAP Memorandum on the XV General Assembly of IUPAP, and the latest IUPAP Newsletter (75-1), which lists all the 1975 conferences sponsored by IUPAP, are enclosed.

Please note that National Committees are invited to make nominations of officers of the Union and members of the IUPAP Commissions for the 1975-1978 period. These nominations must be submitted to the IUPAP Secretary-General by May 15, 1975. The USNC-IUPAP will decide on the nominations it should make at its April meeting.

Information on the composition of the IUPAP Commissions and on the eligibility for reappointment of the present U.S. members is enclosed. The objective of the USNC-IUPAP is to have at least one U.S. member on the Executive Committee and on each of the IUPAP Commissions.

Enclosed is a form on which you can indicate your attendance plans, other agenda items, comments on IUPAP agenda, suggestions for members of the IUPAP Commissions, and information on plans for future international conferences that are being proposed by IUPAP Commissions. An early reply would be appreciated so that we can make advance arrangements for the luncheon and meeting.

March 25, 1975

DRAFT AGENDA

U.S. NATIONAL COMMITTEE FOR IUPAP
MEETING

Washington, D. C.
Shoreham-Americana Hotel
Connecticut Avenue at Calvert St., N. W.
Club Room A
Wednesday, April 30, 1975
12:00 Noon - 4:00 p.m.

1. Approval of Minutes of April 24, 1974 Meeting.
2. USNC-IUPAP Reports:
 - a) Financial Report
 - b) Report on Proceedings Sales
 - c) Report on Audio-Cassette Album of Scientific Talks
3. USNC-IUPAP Membership.
4. IUPAP Executive Committee Meeting, Madrid, September 30 - October 1, 1974.
5. Chinese Membership (Peking and Taiwan) in ICSU and IUPAP.
6. Bi-lateral US-USSR Programs in Physics.
7. XV General Assembly of IUPAP, Munich, FRG, 1975:
 - a) U.S. Delegation
 - b) IUPAP Executive Committee
 - c) IUPAP Commission Members
 - d) IUPAP Dues
8. IUPAP Conferences in the U. S.:
 - a) IX International Conference on High Energy Accelerators, Stanford, California, May 2-7, 1974 (B)
 - b) Conference on Reactions Between Complex Nuclei, Vanderbilt University, Nashville, Tennessee, June 17-21, 1974 (B)
 - c) Conference on Nuclear Cross Sections and Technology, Shoreham-Americana Hotel, Washington, D. C., March 3-5, 1975 (B)
 - d) Second International Conference on Clustering Phenomena in Nuclei, University of Maryland, College Park, Maryland, March 31 - April 4, 1975 (B)
 - e) International Conference on High Energy Physics and Nuclear Structure, Santa Fe, New Mexico, June 8-13, 1975 (B)
 - f) IX International Conference on the Physics of Electronic and Atomic Collisions, University of Washington, Seattle, Washington, July 24-30, 1975 (B)
 - g) International Symposium on Lepton and Photon Interactions at High Energy, Stanford, California, August 21-26, 1975 (B)
 - h) 4th International Conference on Beam Foil Spectroscopy, Gatlinburg, Tennessee, September 15-19, 1975 (B)
 - i) International Conference on Low Lying Lattice Vibrational Modes Ferroelectrics and Superconductors, San Juan, Puerto Rico, December 1-14, 1975 (B)

- j) International Conference on the Interactions of Neutrons with Nuclei, University of Lowell, Lowell, Massachusetts, July 6-9, 1976 (?)
 - k) International Conference on Teaching Physics for Related Sciences and Professions, University of Washington, Seattle, Washington, June or July 1976 (?)
9. IUPAP Conferences in Other Countries.
 10. Requirements for IUPAP Sponsorship of Conferences:
 - a) Pre-Conference Notice
 - b) Arrangements prior to Conference
 - c) Arrangements during Conference
 - d) Conference Proceedings
 11. Character of IUPAP Conferences - Opened or Closed.
 12. International Cooperation in Science.
 13. Free Circulation of Scientists - ICSU Resolutions.
 14. Other Business.

* * * * *

U.S. Members of IUPAP Executive Committee
and Commissions
(1972-1975)

<u>Committee or Commission</u>	<u>Position</u>	<u>Name</u>	<u>Remarks</u>
Executive Committee	Past-President	R. F. Bacher	(66) (1)
Executive Committee	Vice President	V. Weisskopf	(69) (1)
S.U.N.	Member	H. C. Wolfe	(57) (1)
Thermodynamics & Statistical Mechanics	Member	H. B. Callen	(72) (2)
Cosmic Rays	Member	C. J. Waddington	(72) (2)
Very Low Temperature	Member	M. Tinkham	(72) (2)
Publications	Chairman	S. Pasternak	(66) (1)
Publications	Member	A.W.K. Metzner	(72) (2)
Acoustics	Member	I. Hirsch	(69) (3)
Semiconductors	Member	E. O. Kane	(69) (3)
Magnetism	Chairman	G. T. Rado	(66) (1)
Solid State	Member	H. Ehrenreich	(72) (2)
Particles & Fields	Chairman	C. N. Yang	(69) (1)
Particles & Fields	Member	E. L. Goldwasser	(72) (2)
Nuclear Physics	Secretary	J. L. Fowler	(66) (1)
Nuclear Physics	Member	F. Ajzenberg-Selove	(72) (2)
Atomic Masses & Fundamental Constants	Chairman	E. R. Cohen	(66) (1)
Atomic Masses & Fundamental Constants	Secretary	W. H. Johnson	(66) (1)
Physics Education	Chairman	W. C. Kelly	(66) (1)
Physics Education	Member	A. P. French	(72) (2)
Atomic & Molecular Physics	Chairman	L. M. Branscomb	(66) (1)
Plasma Physics	Chairman	S. C. Brown	(66) (1)
Plasma Physics	Member	M. B. Gottlieb	(72) (2)
Quantum Electronics	_____	_____	_____ (4)

Remarks: (__) Two digit number indicates year appointed to Executive Committee or Commission.

- (1) Not eligible for reappointment.
- (2) Eligible for reappointment as member or appointment as Secretary or Chairman.
- (3) Eligible for appointment as Chairman.
- (4) Proposed new Commission.

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

Québec, January 13th, 1975.

Associate Secretary-General:

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

MEMO to National Committees of the Union
from Secretary-General
subject: XVth General Assembly - 1975

Please pay particular attention to
and take action on each of the
following six points:

1. Assembly: The XVth General Assembly of IUPAP will take place in Munich, September 24th to 28th, 1975.

All National Committees should send delegations.

2. Delegations: Each national delegation may consist of from 1 to n delegates, where n is the number of shares held by the country or region represented.

Delegates vote as individuals on scientific questions. The head of the delegation determines all its votes on other questions.

Delegations may include as many non-voting observers as the National Committee wishes.

It is customary for delegations to include as delegates or observers any nationals who happen to be members of International Commissions - particularly chairmen or secretaries.

National Committees are requested to advise the Secretary-General immediately of the probable number of delegates and observers composing their delegations.

3. Visas: National Committees should apply for visas, where required, for all members of their delegations as soon as possible, and in any event not later than June 15th.

To assist in this matter as well as in obtaining hotel reservations, National Committees are requested to forward the names of delegates and observers to the organizing committee (see below) as soon as possible. To this purpose, the organizing committee will send appropriate forms to the National Committees within the next few weeks.

Visa applications should be made in good time to a Consulate of the Federal Republic of Germany. This is the responsibility of National Committees. No difficulties are anticipated. However it is urged that names of delegates be sent to the organizing committee as soon as possible so as to forstall any possible technical delays.

4. Programme: The business of the Assembly has been scheduled for four sessions from September 25-28. If discussions are brisk the IVth session may not be necessary.

In addition, a welcome session of September 24th, a scientific programme, a social programme and a ladies' programme are being organized by the F.R. of G. National Committee. Delegates who can arrange their schedule to be present in Munich from September 23 to 28 are encouraged to do so. We are fortunate in being hosted in Munich during the famous "Oktoberfest".

A preliminary schedule is enclosed.

A preliminary programme for the 3 or 4 business sessions is also enclosed. Committees are invited to forward suggestions concerning this to the Secretary-General before May 15th.

To obtain suitable hotel reservations, it is thus important for National Committees to return the forms which the F.R. of G. National Committee will presently send them as promptly as possible.

5. Reports: It is customary for International Commissions to make reports at the General Assembly. These will be circulated in advance when possible, so that delegates may study them and comment at the Assembly if they wish.

It is less customary for National Committees to make reports. However, any such will be welcome and will be circulated for comment and discussion. They should be submitted before May 15th to the Secretary-General.

- 6. Elections: Officers of the Union and members of International Commissions for the 1975-78 period will be elected by the General Assembly. The election procedures will be determined at the beginning of the Assembly. They may well follow the pattern adopted at the XIVth General Assembly in Washington (Appendix "A" to the Statutes, enclosed). Note that there are over 200 positions to fill. By tradition, about half are re-appointments.

National Committees are hereby invited to make nominations for the various positions. These nominations should be sent to the Secretary-General before May 15th. Please use photocopies of the enclosed form.

International Commissions are also invited to make nominations.

All nominations received by May 15th will be circulated as "List I". Whether subsequent lists are issued will depend on the procedure adopted (See Appendix "A" to the Statutes).

ADDRESSES:

Secretary-General:
(Assembly programme,
delegation size,
nominations)

Prof. Larkin KERWIN, FRSC
Rectorat
Université Laval
Québec, P.Q.
CANADA G1K 7P4

Organizing Committee:
(delegation members,
visas, special problems,
scientific programme,
social programme)

Dr. Wolfgang HEINICKE
F.R.G. National Committee for IUPAP
Gotenstrasse 1-3
D-53 Bonn-Bad Godesberg,
FEDERAL REPUBLIC of GERMANY.

UNION INTERNATIONALE de PHYSIQUE PURE et APPLIQUEE

INTERNATIONAL UNION of PURE and APPLIED PHYSICS

Secrétaire-général:

Prof. L. KERWIN
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Associate Secretary-General:

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Fack
S-402 20 Göteborg 5, SWEDEN
Telephone: 031/810100

XVth GENERAL ASSEMBLY

Munich - September 24-28, 1975

Preliminary Schedule

Tuesday, September 23

a.m. -
p.m. Secretariat
even. -

Wednesday, September 24

a.m. 09h.00 - Executive
10h.00 - Registration
p.m. 14h.00 - Secretariat
14h.30 - Registration
17h.00 - Scientific Programme I
18h.00 - Welcome Session

Thursday, September 25

a.m. 09h.00 - Assembly I
p.m. 14h.30 - Assembly II
evening - Oktoberfest

Friday, September 26

a.m. 09h.00 - Secretariat
09h.00 - Touring
11h.00 - Scientific Programme II
p.m. 14h.00 - Assembly III
17h.30 - Scientific Programme III
evening - Free

Saturday, September 27

a.m. 09h.00 - Assembly IV (if necessary)
11h.30 - Executive
p.m. 15h.00 - Tour - Reception
evening - Free

UNION INTERNATIONALE de PHYSIQUE PURE et APPLIQUÉE

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XVth GENERAL ASSEMBLY

Munich - September 24-28, 1975

Proposed Agenda

1. Welcome
2. Minutes of the 1972 General Assembly as recorded in Document IUPAP-17
3. Adoption of the Agenda
4. Obituaries
5. Resolutions of the Executive Committee concerning the Election Procedure for Executive and Commission membership
6. Resolution of the Executive Committee concerning the sizes of commissions
7. Preliminary discussion of names proposed by Commissions, National Committees and the Executive Committee (decisions will be deferred until items 16 and 17)
8. Secretary-General's Report
9. Commissions reports
10. Reports from National Committees (if any)
11. Inter-union and other commissions - some brief reports
12. ICSU matters
13. Report of the Financial Commission
14. Recommendations of Commissions - presentation and preliminary discussion
15. General discussion of future union policy
16. Election of the Executive Committee for 1975-78
17. Election of Commissions members for 1975-78
18. Resolutions from Commissions
19. Resolutions from National Committees
20. Venue of the 1978 General Assembly
21. Other business
22. Adjournment of the Assembly.

Québec, January 13, 1975.

I.U.P.A.P.

XVth GENERAL ASSEMBLY - 1975

Nomination Form

1. Suggested Office: _____
(e.g. position on Executive or on a particular Commission)

2. Person suggested: Name: _____ Age: _____
Title: _____ (Dr., Prof., etc.)
Position: _____
Address: _____

3. Biographical sketch (50 words). Emphasis on Physics:

4. Signed: _____ (signature)
Name: _____ (print)
on behalf of: National Committee for _____
or: International Commission on _____

(This form must reach Secretary-General by May 15th, 1975)

APPENDIX "A" to the STATUTES

Procedure for the Appointment of Commission Members by the General Assembly

These articles are in conformity with the Statutes. However, they are not themselves statutes but rules of procedure only. They may be adopted or changed by each General Assembly.

1. Each Commission (other than the Finance Commission) will consist of:
Chairman
Secretary
5 to 10 members.

2. Commissions will advise the Executive Committee on the appropriate size for their work. The Executive will make recommendations to each Assembly which will fix Commission sizes before elections take place.

3. Chairmen of Commissions
Chairmen will be appointed for 3 years, normally after 3 (or exceptionally after 6) years as secretary or as an ordinary member of their Commission. In exceptional circumstances, a Chairman may become an ordinary member of the Commission for 3 years after his period as Chairman.

4. Secretaries of Commissions
Secretaries will be appointed for 3 years after 3 years' service on the Commission. Secretaries will be eligible for a second, and final, cycle of 3 years. For the SUN and Atomic Masses Commissions, Secretaries may be appointed after 6 years' service on their Commission.

5. Commission members
Commission members will be appointed for 3 years and will be eligible for one further term of 3 years.

Exceptions to this rule will be permitted for members of Commissions which have very specialized tasks and undoubtedly have a need for some of their members to serve longer than 6 years.

6. National Distribution of Commission Membership

The members of each Commission (excluding Chairman and Secretary) must all come from different countries adhering to IUPAP.

The work of a few Commission may be hindered by this rule, for example Particles and Fields. They may present their case to the Executive and, if approval is given, the Executive will made a recommendation to the General Assembly for ratification before the elections take place.

7. Associate Members

Some Commissions have established valuable links with several scientific unions and other international organizations. They may wish to ask these organizations to nominate experts in these fields to become associate members of IUPAP Commissions. (IUPAP will be invited to appoint physicists as associate members of Commissions established by other Unions.)

The maximum number of associate members of any one Commission will normally be four.

Associate members are not entitled to vote at Commission Meetings nor will they be eligible for IUPAP grants towards travelling and subsistence expenses.

8. The Executive recognizes that it may not be possible to implement all these rules concerning length of service straightaway in 1972.

When new Commissions are established, ad hoc arrangements will need to be made until a normal rotation of membership can be established.

9. Election Procedure for Commission Members

- 9.1. National Committees and Commissions will be invited to suggest names for membership (including the offices of Chairman and Secretary) of Commissions to the Secretary-General up to four months before the General Assembly. Each name submitted must be accompanied by brief details of the physicist's career and post currently held, and, for names submitted by Commissions, it is desirable that the support of the candidate's National Committee should be obtained. A special form will be provided for this purpose. The Secretary-General (or Associate Secretary-General) will circulate all the names received by the deadline to National Committees 3 months before the General Assembly.

- 9.2. The Executive Committee will consider all the suggested names (and may itself suggest names) and will subsequently prepare, as a basis for discussion at the Assembly, a list of names for members of the Commissions.

In preparing the lists of names for Commissions, the Executive will endeavour to ensure a satisfactory world-wide spread of Commission membership. The Executive will publish their proposed list of Commission members as early as possible but not later than the beginning of the General Assembly.

- 9.3. After the publication of the Executive Committee's list of recommended names, it may transpire that some person may be unwilling to serve either as Chairman, Secretary or member. In this event, or if comments are received from National Committees or Commissions, the Executive Committee will make suitable proposals, e.g. they may interchange the name of one of the proposed officers with that of a proposed member or even introduce a new name. The Executive Committee's final list of names will be issued early in the Assembly in time for general discussion.

- 9.4. After the general discussion, individual National Delegations attending the Assembly will be able to reintroduce names from the list of suggested names and add them to the final Executive list by an agreed deadline and using appropriate nomination forms. Names not on the original list may only be introduced by leave of the General Assembly. At this stage, each proposal must be seconded by another delegation. If any candidate is not a member of the proposer's nation, then the seconder should be the candidate's own National Delegation.

- 9.5. In the event of unforeseen circumstances (e.g. unexpected withdrawals) modifying the list of nominees after the nomination deadline is passed, the Secretary-General, after consultation with members of the Executive, will add such names as are necessary to complete the list. The modified list will then be presented to the General Assembly for ratification.

- 9.6. If more names are included on the final ratified list than the number of vacancies to be filled on one or more Commission, then secret ballots will be held. The voting procedure will be the same as the one adopted for choosing Executive Committee members. Voting must be consistent with paragraph (6.).

- 9.7. The procedure for filling casual vacancies on Commission which occur between meetings of the General Assembly will be the same as for casual vacancies on the Executive Committee (Statute 5).

APPENDIX "B" to the STATUTES

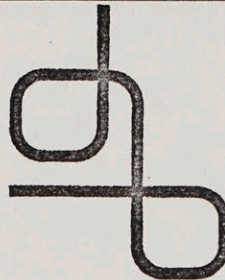
The Sizes of IUPAP Commissions for the period 1973-75

Each Commission shall consist of Chairman and Secretary together with ordinary members, all appointed by the General Assembly. The numbers of ordinary members to be as followed:

C.2	S.U.N.	10 members
C.3	Thermodynamics and Statistical Mechanics	10 members
C.4	Cosmic Rays	8 members
C.5	Very Low Temperature	9 members
C.6	Publications	10 members
C.7	Acoustics	10 members
C.8	Semiconductors	8 members
C.9	Magnetism	10 members
C.10	Solid State Physics	10 members
C.11	Particles and Fields	10 members
C.12	Nuclear Physics	10 members
C.13	Atomic Masses and Fundamental Constants	8 members
C.14	Education	9 members
C.15	Atomic and Molecular Physics and Spectroscopy	10 members
C.16	Plasma Physics	10 members

Commission to be proposed:

C.17	Quantum Electronics	10 members
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75-1

February 15, 1975

LIST OF IUPAP CONFERENCES IN 1975

This News Bulletin contains the complete list of international conferences to be organized in 1975 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 1975

C3 COMMISSION ON THERMODYNAMICS AND STATISTICAL MECHANICS

C3.1 Vth Conference "De la Physique Théorique à la Biologie"

Versaille, France
 June, 1975
 "C"

Organizer: Prof. M. Marcis
 Institut de la Vie
 89 Bd St Michel
 Paris 5^{ème}
 France

C3.2 International Conference on Statistical Mechanics

Budapest, Hungary
 August 25-29, 1975
 "A"

Organizer: Prof. P. Szépfalussy
 Inst. for Theoretical Physics
 Eötvös University
 H-1083 Budapest
 Puskin u. 5/7
 Hungary

C4 COMMISSION ON COSMIC RAYS

C4.1 14th International Conference on Cosmic Rays

Munich, BRD
 August 15-29, 1975
 "A"

Organizer: Prof. K. Pinkau
 Max-Planck-Institut für
 extraterrestrische Physik
 D-8046 Garching b. München
 BRD

C5 COMMISSION ON VERY LOW TEMPERATURE

C5.1 14th International Conference on Low Temperature Physics

Otaniemi, Finland
 August 14-20, 1975
 "A"

Organizer: Prof. O.V. Lounasmaa
 Low Temperature Laboratory
 Helsinki University of Techn.
 SF-02150 Otaniemi
 Finland

C5.2 2nd International Conference on Phonon Scattering in Solids

Nottingham, England
 August 27-30, 1975
 "B"

Organizer: Prof. L.J. Challis
 Dept. of Physics
 Nottingham University
 University Park
 Nottingham NG7 2RD
 England

C8 COMMISSION ON SEMICONDUCTORS

C8.1 International Conference on Amorphous and Liquid Semiconductors

Leningrad, USSR
June 10-16, 1975
"B"

Organizer: Prof. A.R. Regel,
A.F. Ioffe Physico-Technical
Institute,
194021 Leningrad
USSR

C10 COMMISSION ON SOLID STATE PHYSICS

C10.1 3rd International Conference on Vapour Growth
and Epitaxy

Amsterdam, The Netherlands
August 18-21, 1975
"A"

Organizer: Dr. C.J.M. Rooymans
Philips Research Laboratories
Eindhoven
The Netherlands

C10.2 1975 International Conference on Luminescence

Tokyo, Japan
September 1-5, 1975
"B"

Organizer: Prof. S. Shionoya
Institute for Solid State
Physics,
University of Tokyo
Roppongi, Minato-ku
Tokyo 106
Japan

C10.3 Low Lying Lattice Vibrational Modes in Ferroelectrics and
Superconductors

San Juan, Puerto Rico
December 1-4, 1975
"B"

Organizer: Prof. M.I. Kay
Puerto Rico Nuclear Center
College Station
Mayaguez
Puerto Rico

C11 COMMISSION ON PARTICLES AND FIELDS

C11.1 International Conference on High Energy Physics and Nuclear
Structure*)

Santa Fe, N.M., USA
June 8-13, 1975
"B"

Organizer: Prof. L. Rosen
Los Alamos Scientific Laboratory
P.O. Box 1663
Los Alamos, New Mexico 87554
USA

C11.2 International Conference on Neutrino Physics

Baltonfüred, Hungary
June 16-23, 1975
"C"

Organizer: Prof. G. Marx
Dept. of Atomic Physics
Eötvös University
Budapest VII
Puskin Str. 5
Hungary

*)

Jointly sponsored with the Nuclear Physics Commission

C11.3 International Symposium on Lepton and Photon Interactions
at High Energy

Stanford, Calif., USA
August 21-26, 1975
"B"

Organizer: Prof. J. Ballam
SLAC
P.O. Box 4349
Stanford, Calif. 94305
USA

C12 NUCLEAR PHYSICS COMMISSION

C12.1 Nuclear Cross Sections and Technology

Washington, D.C., USA
March 3-7, 1975
"B"

Organizer: Prof. W.W. Havens
A.P.S. 335 East 45 Street
New York, N.Y. 10017,
USA

C12.2 2nd International Conference on Clustering Phenomena
in Nuclei

College Park, Md, USA
March 31-April 4, 1975
"B"

Organizer: Prof. H.D. Holmgren
Dept. of Physics
Univ. of Maryland
College Park, Md. 20742
USA

C12.3 Vith International Conference on Cyclotrons and Their
Applications

Zürich, Switzerland
August 19-22, 1975
"B"

Organizer: Prof. J.P. Blaser
Physikalisches Inst.
Gloria Strasse 35
8006 Zürich
Switzerland

C12.4 4th International Symposium on Polarization Phenomena
in Nuclear Reactions

Zürich, Switzerland
August 25-30, 1975
"B"

Organizer: Prof. W. Grubler
Lab. für Kernphysik
ETH
Zürich
Switzerland

C13 ATOMIC MASSES AND RELATED CONSTANTS COMMISSION

C13.1 5th International Conference on Atomic Masses and
Fundamental Constants

Paris, France
June 3-7, 1975
"B"

Organizer: Prof. W.H. Johnson
School of Physics and Astronomy
Univ. of Minnesota
Minneapolis, Minnesota 55455
USA

C14 COMMISSION ON PHYSICS EDUCATION

C14.1 IUPAP Conference on the Improvement of Physics Education

Edinburgh, England
 July 30 - August 6, 1975
 "A"

Organizer: Mr. John L. Lewis
 Malvern College
 Worcestershire
 United Kingdom

C15 ATOMIC AND MOLECULAR PHYSICS AND SPECTROSCOPY COMMISSION

C15.1 2nd Laser Spectroscopy Conference

Megève, France
 June 23-28, 1975
 "B"

Organizer: Prof. J.C. Pebay-Peyroula
 Université Scientifique et
 Médicale de Grenoble,
 Lab. de Spectrométrie Physique
 B.P. 53
 38041 Grenoble Cedex
 France

C15.2 IX International Conference on the Physics of Electronic
and Atomic Collisions

Seattle, Wash., USA
 July 24-30, 1975
 "A"

Organizer: Prof. R. Geballe
 Dept. of Physics
 Mail Stop BJ-10
 Univ. of Washington
 Seattle, Washington 98195
 USA

C15.3 4th International Conference on Beam Foil Spectroscopy

Gatlinburg, Tenn., USA
 September 15-19, 1975
 "B"

Organizer: Prof. I.A. Sellin
 Oak Ridge National Laboratory
 P.O. Box X
 Oak Ridge, Tenn. 37830
 USA

C16 PLASMA PHYSICS COMMISSION

C16.1 12th International Conference on Phenomena in Ionized Gases

Eindhoven, The Netherlands
 August 18-22, 1975
 "A"

Organizer: Prof. H.L. Hagedoorn
 Eindhoven University of Technology
 Eindhoven
 The Netherlands

HUPAP

February 10, 1975

Professor L. Kerwin
Bureau de Recteur
Universite Laval
Quebec, P.Q. CANADA

Dear Larkin:

I am sorry that my reply to your inquiry is a little late. I was three weeks in Mexico during the month of January. I also enclose a self-explanatory note from Mr. Richard Dow of the National Research Council. I am doing my duty but I am sure you are quite aware of the situation to which he alludes.

With best regards,

Sincerely yours,

V. F. Weisskopf

VFW:dle

encl.

Madrid, 3rd March, 1975

UNION INTERNACIONALE
DE PHYSIQUE PURE ET APPLIQUÉE
COMITE ESPAÑOL

IUPAP

V. Weisskopf
Dept. of Physics
Massachusetts Inst. of Tech.
Cambridge
Mass. 02139, USA

Dear Prof. Weisskopf

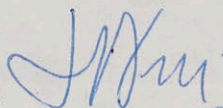
The Spanish Committee of IUPAP, of which I am president, would wish to increase its representation in the different commissions. For this purpose I am listing down the following candidates:

3. Thermodynamics and statistical Mechanics: Prof. Luis Mazaredo.
8. Semiconductors: Prof. Federico García Moliner.
10. Solid State Physics: Prof. Luis Brú.
11. Particles and Fields: Prof. Alberto Galindo.
15. Atomic and Molecular Physics & Spectroscopy: Prof. Rafael Velasco.

I would appreciate very much your considering our request at the next reunion in Munich.

Thank you very much.

Yours sincerely,



- L. Brú -

Prof. LUIS BRU
FACULTAD DE CIENCIAS
Ciudad Universitaria
MADRID-3

Luis de Mazarredo

Born in Madrid in 1919

Naval Architect and Marine Engineer since 1942

Doctor in N.A. since 1962.

Lecturer in the Naval Architecture School Madrid since 1947. Professor in 1952. Head of Studies of the School from 1957 to 1972. Vicerector of the Polytechnic University Madrid since 1972.

Organizer and Secretary of the 1st. and 2nd Spanish Symposiums on University Level Education (1959,1960). Several papers and comments in different meetings both in Spain and abroad on this subject, including Research in general.

Organizer and Secretary of the International Towing Tank Conference (ITTC) held in Madrid in 1957. Founder of the Sp. Shipbuilding Research Association in 1963 and director since that date. Organizer and Chairman of the 1st. Intern. Symposium on Naval Architecture Education (1973). Several papers on these subjects.

His interest has been put successively on Marine Engineering. Applied Thermodynamics, Cavitation, Heat Transfer and Ship Hydrodynamics. At present he is i.a. active on: Solar Energy, Propeller's Cavitation and Vibrations, Fishing boats stability, Stopping of big tankers, and Engineering Systems on board of ships.

He is author of several "apuntes" on Thermodynamics, Combustion, Boilers and Heat Transfer edited by "Escuela Ingenieros Navales", Madrid.

A paper on "Heat Transfer" was presented in the "4º Congreso de Ingeniería Naval" held in Madrid in 1952.

A conference on "Lecturing on Heat Transfer" was given in T.H. Aachen in 1966. Edited afterwards.

Besides being in the Spanish Committee of UIPPA since 1952 (first as treasurer and now as Deputy Chairman)

He is member of RINA (GB) SNAME (USA) ATMA (F) SBTG (D) and of the Technical Committees of Lloyd's Register and B. Veritas in Madrid, of a Tech. Committee of the ITTC and of the standing Committee of the International Cooperation in Marine Systems (ISMEC).

Curriculum Vitae

Federico GARCIA-MOLINER

Born: March 4, 1930. Married. 3 children.

Physics "licentiate", Univ.Madrid, 1954. Ph.D., Univ.Cambridge, 1958. Doctor of Science, Univ.Madrid, 1960.

Ramsay Fellow, 1955-57. British Council Scholar, 1957-58. "Juan March" Fellowship, 1959. Fulbright Lecturer (Visiting Associate Professor, Univ.Illinois), 1961-64.

Research Award "Pedro Barrié de la Maza", 1970 and 1971.

Present position: Research Professor (Spanish Research Council) and Professor of Physics (Autonomous Univ.of Madrid). Head, Theoretical Physics Section of the Coordinated Physics Centre.

Member of the Advisory Committee for Condensed Matter, International Centre for Theoretical Physics (Trieste).

Membership: Real Sociedad Española de Física y Química, European Physical Society. Fellow of the Institute of Physics (U.K.).

Various publications in: An.Fís.Quím., Catalysis Rev., J.Appl.Phys., J.Phys.C(Solid State), J.Phys.Chem.Solids, Phil. Mag., Phys.Stat.Sol., Physical Acoustics, Phys. Rev., Proc.Camb.Phil.Soc., Proc.Peruggia Summer School 1967, Proc.Phys.Soc.London, Proc.Roy.Soc. London, Proc.Trieste Winter Colleges of 1970, 1972 and 1974, Rev.Acad.Cienc., Solid Stat.Comm. and Surface Sci.

February 1974.

C U R R I C U L U M V I T A E

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Prof. Luis BRU

President of the Spain committee of the IUPAP

Place and Date of Birth : Spain, 1909

Marital Status : Married, 2 children.

Academic Degrees

D.Sc. Physics, University of Madrid, 1933

Positions Held

Research Position , Consejo Superior de Investigaciones
Cientificas, Madrid, Sevilla and Madrid
1942/1974

Full Professor of Physics , University of La Laguna 1935/42

Full Professor of Physics, University of Sevilla 1942/55

Full Professor of Physics, University of Madrid 1955/64

Full Professor of Solid State Physics, University of Madrid
1964/.....

Head of the Dep. of Fundamental Physics, University of
Madrid 1962/.....

President of the Spanish Society of Electron Microscopy.

President of the Spanish Society of Pure and Applied Crystallography.

Fellow of the Royal Academie of Medicine.

Research Experience

More as 100 papers published on the Following Subjects

X-Rays : Electron Diffraction : Electron Microscopy

(Structures, Molecular Structure, Defects,)

(J. of Chemical Physics, Z. fuer Kristallography, Proc. Physical
Society, Philosophical Mag. Surface Scientia, Thin Films, Acta
Metallurgica, Physics Status Solidi, Radiation Effects ...)

Attendance at Research Institutes

Politecnium Institute -Zurich - Prof.Scherrer 2 Years.

Imperial College - London - Prof.Finch 2 Years.

University of Ann Arbor - Prof.Brockway - 7 months. (As
visiting Prof.)

Author of the following Text Books

FISICA (12 editions) - MECANICA (4 Editions)- TRABAJOS
PRACTICOS DE FISICA (3 Editions)

Awards

Premio Alonso Barba (Real Sociedad Española de Física y Química)

Premio Real Academia de Ciencias.

Premio Francisco Franco (Consejo Superior de Investigaciones
Científicas)

Premio Fundación JUAN MARCH (Máximo galardón Español)

C U R R I C U L U M V I T A E

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Alberto GALINDO

Place and Date of Birth: Spain, 1934

Marital Status: Married, 3 children

Academic Degrees:

M. Sc. Mathematics, University of Zaragoza, 1957

D. Sc. Physics, University of Madrid, 1960

Positions Held:

Research Position, Junta de Energía Nuclear, Madrid, 1957-1963

Full Professor of Mathematical Physics, University of Zaragoza,
1963-67

Full Professor of Theoretical Physics, University of Madrid,
1967 on

Director of the Interuniversity Group of Theoretical Physics,
1968-1970, 1974 on

Research Experience in the Following Subjects:

Algebraic Geometry

Functional Analysis

Quantum Field Theory

Weak Interactions

Internal Symmetries

Elementary Particles-Nuclei Interactions

Attendance at Research Institutes:

Courant Institute, New York, 1961-62, as a Temporary Member

ICTP, Trieste, Summer 1962, as active participant on the International Seminar

CERN, Geneva, 1962-64, Summer 1967, as a Visiting Scientist invited by CERN

IHES, Bures-sur-Yvette, Spring 1971, Summer 1972, as Invited Visitor

Attendance to several International and Topical Conferences (Sienna 1963, Dubna 1964, CERN 1968, Vienna 1968, Lund 1969).

Publications:

More than 50 publications, including lecture notes, monographs and reviews. Among these publications, about 25 papers published in foreign journals, like Journ. Math. Phys., Phys. Lett., Nuovo Cim., Helv. Phys. Acta, Comm. Pure and Appl. Math., Proc. Natl. Ac. of Sciences, Amer. J. of Phys., Physics, Nucl. Phys., etc.

RAFAEL VELASCO, Born at Barcelona, Spain, March 29, 1919

Summary of his curriculum:

Degrees.-- Ph. D., University of Madrid; Research Professor, Spanish Research Council.

Position.-- Head, Spectroscopy Department, Institute of Optics, Madrid. Adjunct Councillor Spanish Research Council.

Scientific Publications.-- 46 Research papers, 29 on Atomic -- Spectroscopy, 17 on Molecular Spectroscopy. He has directed 18 research projects of graduate students. Editor of the Spanish version of a Dictionary of Molecular Spectroscopy (IUPAC)

Scientific activities outside Spain.-- He has worked on several research programs in the following laboratories:

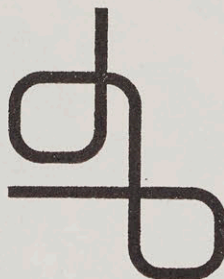
Fysiskas Institutionen, Lund, Sweden (Atomic Spectroscopy); National Research Council, Ottawa, Canada (Molecular Spectroscopy); Joint Institute for Laboratory Astrophysics, Boulder, Colo. USA (Molecular Spectroscopy); Max Planck Institut, Göttingen, Germany (Molecular Spectroscopy).

International Scientific Cooperation. Member of the Organizing Committee of EGAS (European Group of Atomic Spectroscopy). Member of the Organizing Committee of the IX European Congress on Molecular Spectroscopy; Chairman of the Organizing Committee of an International Symposium on Atomic Spectroscopy, Zaragoza, Spain, 1972.

He has attended 19 International Conferences on topics related with Atomic and Molecular Physics.

Spoken languages.-- Spanish, French, English.

March, 1974.



75-1

February 15, 1975

LIST OF IUPAP CONFERENCES IN 1975

This News Bulletin contains the complete list of international conferences to be organized in 1975 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 1975

C3 COMMISSION ON THERMODYNAMICS AND STATISTICAL MECHANICS

C3.1 Vth Conference "De la Physique Théorique à la Biologie"

Versaille, France
 June, 1975
 "C"

Organizer: Prof. M. Marois
 Institut de la Vie
 89 Bd St Michel
 Paris 5^{ème}
 France

C3.2 International Conference on Statistical Mechanics

Budapest, Hungary
 August 25-29, 1975
 "A"

Organizer: Prof. P. Szépfalussy
 Inst. for Theoretical Physics
 Eötvös University
 H-1088 Budapest
 Puskin u. 5/7
 Hungary

C4 COMMISSION ON COSMIC RAYS

C4.1 14th International Conference on Cosmic Rays

Munich, BRD
 August 15-29, 1975
 "A"

Organizer: Prof. K. Pinkau
 Max-Planck-Institut für
 extraterrestrische Physik
 D-8046 Garching b. München
 BRD

C5 COMMISSION ON VERY LOW TEMPERATURE

C5.1 14th International Conference on Low Temperature Physics

Otaniemi, Finland
 August 14-20, 1975
 "A"

Organizer: Prof. O.V. Lounasmaa
 Low Temperature Laboratory
 Helsinki University of Techn.
 SF-02150 Otaniemi
 Finland

C5.2 2nd International Conference on Phonon Scattering in Solids

Nottingham, England
 August 27-30, 1975
 "B"

Organizer: Prof. L.J. Challis
 Dept. of Physics
 Nottingham University
 University Park
 Nottingham NG7 2RD
 England

C8 COMMISSION ON SEMICONDUCTORS

C8.1 International Conference on Amorphous and Liquid Semiconductors

Leningrad, USSR
June 10-16, 1975
"B"

Organizer: Prof. A.R. Regel,
A.F. Ioffe Physico-Technical
Institute,
194021 Leningrad
USSR

C10 COMMISSION ON SOLID STATE PHYSICS

C10.1 3rd International Conference on Vapour Growth
and Epitaxy

Amsterdam, The Netherlands
August 18-21, 1975
"A"

Organizer: Dr. C.J.M. Rooymans
Philips Research Laboratories
Eindhoven
The Netherlands

C10.2 1975 International Conference on Luminescence

Tokyo, Japan
September 1-5, 1975
"B"

Organizer: Prof. S. Shionoya
Institute for Solid State
Physics,
University of Tokyo
Roppongi, Minato-ku
Tokyo 106
Japan

C10.3 Low Lying Lattice Vibrational Modes in Ferroelectrics and
Superconductors

San Juan, Puerto Rico
December 1-4, 1975
"B"

Organizer: Prof. M.I. Kay
Puerto Rico Nuclear Center
College Station
Mayaguez
Puerto Rico

C11 COMMISSION ON PARTICLES AND FIELDS

C11.1 International Conference on High Energy Physics and Nuclear
Structure*)

Santa Fe, N.M., USA
June 8-13, 1975
"B"

Organizer: Prof. L. Rosen
Los Alamos Scientific Laboratory
P.O. Box 1663
Los Alamos, New Mexico 87554
USA

C11.2 International Conference on Neutrino Physics

Baltonfüred, Hungary
June 16-23, 1975
"C"

Organizer: Prof. G. Marx
Dept. of Atomic Physics
Eötvös University
Budapest VII
Puskin Str. 5
Hungary

*)

Jointly sponsored with the Nuclear Physics Commission

C11.3 International Symposium on Lepton and Photon Interactions
at High Energy

Stanford, Calif., USA
August 21-26, 1975
"B"

Organizer: Prof. J. Ballam
SLAC
P.O. Box 4349
Stanford, Calif. 94305
USA

C12 NUCLEAR PHYSICS COMMISSION

C12.1 Nuclear Cross Sections and Technology

Washington, D.C., USA
March 3-7, 1975
"B"

Organizer: Prof. W.W. Havens
A.P.S. 335 East 45 Street
New York, N.Y. 10017,
USA

C12.2 2nd International Conference on Clustering Phenomena
in Nuclei

College Park, Md, USA
March 31-April 4, 1975
"B"

Organizer: Prof. H.D. Holmgren
Dept. of Physics
Univ. of Maryland
College Park, Md. 20742
USA

C12.3 VIth International Conference on Cyclotrons and Their
Applications

Zürich, Switzerland
August 19-22, 1975
"B"

Organizer: Prof. J.P. Blaser
Physikalisches Inst.
Gloria Strasse 35
8006 Zürich
Switzerland

C12.4 4th International Symposium on Polarization Phenomena
in Nuclear Reactions

Zürich, Switzerland
August 25-30, 1975
"B"

Organizer: Prof. W. Grubler
Lab. für Kernphysik
ETH
Zürich
Switzerland

C13 ATOMIC MASSES AND RELATED CONSTANTS COMMISSION

C13.1 5th International Conference on Atomic Masses and
Fundamental Constants

Paris, France
June 3-7, 1975
"B"

Organizer: Prof. W.H. Johnson
School of Physics and Astronomy
Univ. of Minnesota
Minneapolis, Minnesota 55455
USA

C14 COMMISSION ON PHYSICS EDUCATION

C14.1 IUPAP Conference on the Improvement of Physics Education

Edinburgh, England
 July 30 - August 6, 1975
 "A"

Organizer: Mr. John L. Lewis
 Malvern College
 Worcestershire
 United Kingdom

C15 ATOMIC AND MOLECULAR PHYSICS AND SPECTROSCOPY COMMISSION

C15.1 2nd Laser Spectroscopy Conference

Megève, France
 June 23-28, 1975
 "B"

Organizer: Prof. J.C. Pebay-Peyroula
 Université Scientifique et
 Médicale de Grenoble,
 Lab. de Spectrométrie Physique
 B.P. 53
 38041 Grenoble Cedex
 France

C15.2 IX International Conference on the Physics of Electronic
and Atomic Collisions

Seattle, Wash., USA
 July 24-30, 1975
 "A"

Organizer: Prof. R. Geballe
 Dept. of Physics
 Mail Stop BJ-10
 Univ. of Washington
 Seattle, Washington 98195
 USA

C15.3 4th International Conference on Beam Foil Spectroscopy

Gatlinburg, Tenn., USA
 September 15-19, 1975
 "B"

Organizer: Prof. I.A. Sellin
 Oak Ridge National Laboratory
 P.O. Box X
 Oak Ridge, Tenn. 37830
 USA

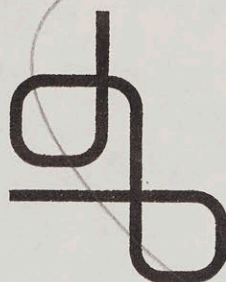
C16 PLASMA PHYSICS COMMISSION

C16.1 12th International Conference on Phenomena in Ionized Gases

Eindhoven, The Netherlands
 August 18-22, 1975
 "A"

Organizer: Prof. H.J. Hagedoorn
 Eindhoven University of Technology
 Eindhoven
 The Netherlands

NEWS BULLETIN



International Union
of
Pure and Applied Physics

74-6
July 15, 1974

IUPAP CONFERENCES

An essentially complete list can be found in News Bulletin 74-1. Readers are reminded of the following forthcoming events

X-RAY PROCESSES IN MATTER	July 29 - Aug. 1 Helsinki
COLOR CENTRES IN IONIC CRYSTALS	August 19-23 Sendai
THE FEW BODY PROBLEM IN NUCLEAR PHYSICS	August 26-30 Québec
INTERNATIONAL SYMPOSIUM ON NEUTRON CAPTURE, GAMMA RAY SPECTROSCOPY AND RELATED TOPICS	September 2-6 Petten
INTERNATIONAL CONFERENCE ON THE MOSSBAUER EFFECT	September 2-6 Bandor
INTERNATIONAL CONFERENCE ON NUCLEAR STRUCTURE AND SPECTROSCOPY	September 9-13 Amsterdam
18TH CONGRÈS AMPÈRE ON MAGNETIC RESONANCE AND RELATED PHENOMENA	September 9-14 Nottingham
INTERNATIONAL CONFERENCE ON THEORETICAL PLASMA PHYSICS	October 29 - November 2 Kiev

EXECUTIVE COMMITTEE

The Executive Committee will meet in Madrid September 30 - October 1 (News Bulletin 74-2). Any matter to be considered by the Executive Committee at this meeting should be communicated to the Secretary-General, Professor L. Kerwin, not later than September 1.

COSRAY

COSRAY is a new News Bulletin published half-yearly by Professor M.G.K. Menon, Chairman of the IUPAP Cosmic Ray Commission. It contains brief notes on subjects relevant to the community of cosmic ray physicists.

JOINT
IUPAP AND IUPAC
COMMISSION

IUPAP has agreed to join with IUPAC in setting up a joint Commission to consider the problem of names to be given the elements 104 and 105.

NEW DATA
GUIDE

A new consolidated "Guide to World Data Centres" has been issued under ICSU auspices. The World Data Centres came into existence during the International Geophysical Year to collect and disseminate numerical data. The WDCs include the following scientific areas: Meteorology, Geomagnetism, Aurora, Airglow, Ionosphere, Solar Activity, Cosmic Rays, Rotation of the Earth, Glaciology, Oceanography, Rockets and Satellites, Seismology, Tsunamis, Gravimetry and Physics and Chemistry of the Earth's Interior.

COMMISSION ON
SYMBOLS, UNITS
AND NOMENCLATURE

Union members were saddened to learn of the death of Professor L. Rosenfeld on March 23. Professor Rosenfeld, one of the pioneers in the development of quantum mechanics, was at the time of his death a member of the Commission on Symbols, Units and Nomenclature.