

CALIFORNIA INSTITUTE OF TECHNOLOGY  
PASADENA, CALIFORNIA

GEOLOGICAL SCIENCES

April 6, 1961

To: All previous participants in Conferences on Science and World Affairs  
(Pugwash Conferences)

From: Harrison Brown

Plans are now being worked out for the Seventh Conference on Science and World Affairs, this one to be held in September in the United States. The arrangements which have thus far been formulated have been approved at a meeting of the International Continuing Committee which was held in London in early March. The National Academy of Sciences and the American Academy of Arts and Sciences will act as co-hosts of the meeting.

The meeting will be held in two parts. The first will be held in Woods Hole, Massachusetts, September 5 - 8 on the general subject of International Scientific Cooperation. The second part will be held in Aspen, Colorado September 10 - 17 on the general subject of Disarmament and Arms Control. A generous grant from the Ford Foundation will provide somewhat over one-half of the estimated funds needed for the Conference.

It was agreed in London that there will be approximately 50 participants distributed as follows: U.S.S.R. - 15, U.S.A. - 15, other countries - 20. Participants in the Woods Hole meeting may be different from those in the Aspen meeting.

A Conference Committee has been established by the American Members of the International Continuing Committee to handle the arrangements for the meeting as follows:

Harrison Brown (Chairman)  
Paul Doty (Vice Chairman)  
George Fischer  
Bentley Glass  
Richard Leghorn  
Eugene Rabinowitch

Dean Arthur Singer of M.I.T. has agreed to serve as full-time Conference Administrator.

Agenda Committees have been appointed for both parts of the Conference to make recommendations to the Conference Committee on matters connected with the agenda and participants. These Committees are as follows:

Woods Hole

Eugene Rabinowitch (Chairman)  
Bentley Glass  
William Consolazio

Aspen

Richard Leghorn (Chairman)  
Donald Brennan  
Amrom Katz



Clearly with only 15 "spaces" available for American participants the task of selecting invitees will be a particularly difficult one. A total of over 60 Americans have thus far participated in the conferences, and it is our hope that a few persons who have not thus far participated in these conferences can be invited this time. The selection of the list of invitees will be made considering individual men in relation to the specific agenda topics agreed upon in London.

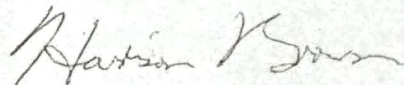
In order to provide all previous American Pugwash participants with the opportunity of meeting their colleagues from abroad again, the evening of Friday, September 8, and all day Saturday, September 9, are being reserved for special meetings in Boston. We hope to have travel funds available for this purpose so that all who wish can participate.

I would appreciate it if you would write to Ruth Adams, 935 E. 60th Street, Chicago 37, Illinois, and give her answers to the following specific questions:

1. If invited, would you be able to participate in the Woods Hole and/or Aspen meetings at the times specified?
2. Will you be willing and able to participate in the Boston discussions if funds are available for travel:

We are making every effort to make the September meeting a successful one. Given the full cooperation of all former participants, I feel certain that we will succeed.

With best regards,



Harrison Brown, Chairman  
Seventh Conference on  
Science and World Affairs



Spix Ci 72690



SEVENTH CONFERENCE ON SCIENCE AND WORLD AFFAIRS

Provisional Participants List

Disarmament and Arms Control - September 10-17, 1961

Australia

Sir Mark Oliphant  
Research School of Physical Sciences  
Australian National University  
Box 4, G.P.O.  
Canberra

Bulgaria

Prof. G. Nadjakov  
Academy of Science  
Sofia

Canada

Prof. J. Polanyi  
Department of Chemistry  
Toronto University  
Toronto

Federal Republic of Germany

Prof. G. Burkhardt  
Institut für Theoretische Physik der Technischen Hochschule  
Welfengarten 1  
Hannover

France

Prof. F. Perrin  
Commissariat à l'énergie Atomique  
69 Rue de Varenne  
Boite Postale 307  
Paris VII  
Prof. Pierre Rosensteihl  
30 Boulevard Flandrin  
Paris 16

German Democratic Republic

Prof. H. Barwich  
Dubna M.O.  
Uliza sowjetsjaja No.2/1,  
U.S.S.R.

Hungary

Prof. B.F. Straub  
Department of Biochemistry  
Hungarian Academy of Sciences  
Budapest



Italy

Dr. M. Bernardini  
C.E.R.N.  
Geneva 23, Switzerland

Netherlands

Prof. B.V.A. Rüling  
Department of Criminal Law  
Rijksuniversiteit te Groningen  
Groningen

United Kingdom

Prof. P.M.S. Blackett  
Imperial College  
Prince Consort Road  
London S.W.7

Sir Edward Bullard  
Madingley Rise  
Madingley Road  
Cambridge

Sir John Cockcroft  
Churchill College  
Cambridge

Mr. M. Howard  
63 Onslow Square  
London S.W.7

Rt. Hon. Philip Noel-Baker  
16 South Eaton Place  
London S.W.1

Sir William Penney  
U.K. Atomic Energy Authority  
Charles II Street  
London S.W.1

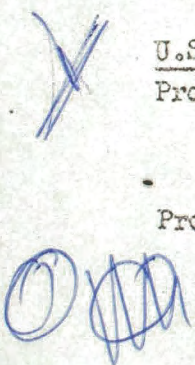
Prof. J. Rotblat  
8 Asmara Road  
London N.W.2

Sir Solly Zuckerman  
Ministry of Defence  
Storey's Gate  
London S.W.1

U.S.A.

Prof. Hans Bethe  
Laboratory of Nuclear Studies  
Cornell University  
Ithaca, New York

Prof. R.R. Bowie  
Harvard University  
6 Divinity Avenue  
Cambridge 38, Mass.





U.S.A. (continued)

Dr. Donald Brennan  
Lincoln Laboratory  
Massachusetts Institute of Technology  
Cambridge 39, Mass.

Prof. Harrison Brown  
Division of Geological Sciences  
California Institute of Technology  
Pasadena, California

Prof. Paul Doty  
Conant Laboratory 308  
Harvard University  
Cambridge 38, Mass.

Prof. B.T. Feld (of M.I.T.)  
at Villa Olga Daddi  
Schiapparello 57  
Potoferraio  
Elba, Italy

Dr. Amron Katz  
Rand Corporation  
Santa Monica, California

Dr. Henry Kissinger  
Harvard University  
6 Divinity Avenue  
Cambridge 38, Mass.

Prof. George Kistiakowski  
Gibbs Laboratory 207  
Harvard University  
Cambridge 38, Mass.

Prof. Charles Lauritsen  
California Institute of Technology  
Pasadena, California

Prof. Leon Lipson  
Yale University  
New Haven, Conn.

Prof. W. Panofsky  
High Energy Physics Laboratory  
Stanford University  
Palo Alto, California

Prof. E.M. Purcell  
Department of Physics  
Harvard University  
Cambridge 38, Mass.

Prof. I. Rabi  
450 Riverside Drive  
New York 27, N.Y.

Prof. Louis B. Sohn  
Department of International Law  
Harvard University  
Cambridge 38, Mass.

Dr. M. Sands  
Department of Physics  
California Institute of Technology  
Pasadena, California



U.S.A. (continued)

Prof. Leo Szilard  
University of Chicago  
Chicago 37, Illinois

Dr. Charles Townes  
Institute of Defence Analyses  
1710 H Street N.W.  
Washington 6, D.C.

XX

U.S.S.R.

Acad. A.P. Aleksandrov  
U.S.S.R. Academy of Sciences  
Bolshaya Kalufhskaya 14  
Moscow

Acad. A.A. Arzumanyan  
Institute of World Economics and International Relations  
Kitaisky pr. 7  
Moscow

Acad. A.A. Blagonravov  
U.S.S.R. Academy of Sciences  
Bolshaya Kalufhskaya 14  
Moscow

Acad. N.N. Bogolubov  
Ateklof's Mathematical Institute  
1 st. Academy pr. 28  
Moscow

Acad. M.M. Dubinin  
U.S.S.R. Academy of Sciences  
Leninsky Prospect 14  
Moscow

Acad. V.S. Emelyanov  
U.S.S.R. Academy of Sciences  
Bolshaya Kalufhskaya 14  
Moscow

Acad. E.K. Fedorov  
U.S.S.R. Academy of Sciences  
Bolshaya Kalufhskaya 14  
Moscow

Acad. P.L. Kapitza  
Institute of Physical Problems  
Vorbyevscoe shoase 2  
Moscow

Acad. V.M. Khvostov  
Institute of History  
1 Tcheremushkinskaja St. 19  
Moscow

Prof. M.I. Rubinstein  
Institute of World Economics and International Relations  
Kitaisky pr. 7  
Moscow

Acad. N.N. Semenov  
U.S.S.R. Academy of Sciences  
Bolshaya Kakufhskaya 14  
Moscow



U.S.S.R. (continued)

- Acad. N.M. Sissakyan  
U.S.S.R. Academy of Sciences  
Leninsky Prospect 14  
Moscow
- Prof. N.A. Talensky  
U.S.S.R. Academy of Sciences  
Bolshaya Kakufhskaya 14  
Moscow
- Acad. I.E. Tamm  
U.S.S.R. Academy of Sciences  
Bolshaya Kakufhskaya 14  
Moscow
- Acad. A.V. Topchiev  
U.S.S.R. Academy of Sciences  
Leninsky Prospect 14  
Moscow
- Acad. A.P. Vinogradov  
Institute of Geo-Chemistry and Analytical Chemistry  
Vorobjevscoe shosse d.47a  
Moscow
- Acad. V.M. Zhdanov  
U.S.S.R. Academy of Sciences  
Bolshaya Kalufhskaya 14  
Moscow



E. Wigner, Elmire, Vt.



April 17, 1961

The Seventh Conference on Science and World Affairs  
(formerly known as Pugwash Conferences)

Plans are now being worked out for the Seventh Conference on Science and World Affairs, this one to be held in September in the United States. The arrangements which have thus far been formulated have been approved at a meeting of the International Continuing Committee which was held in London in early March. The National Academy of Sciences and the American Academy of Arts and Sciences will act as co-hosts of the meeting.

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Paul Coty (Vice Chairman)  
George Fischer  
Bentley Glass  
Richard Leghorn  
Eugene Rabinowitch

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Bentley Glass  
William Consolazio

Aspen

Richard Leghorn (Chairman)  
Donald Brennan  
Amrom Katz



In order to provide all previous American participants in these conferences with the opportunity of meeting their colleagues from abroad again, the evening of Friday, September 8th, and all day Saturday, September 9th, are being reserved for special meetings in Boston. We hope to have travel funds available for this purpose so that all who wish can participate. A committee consisting of Hudson Hoagland (Chairman), Paul Doty and Alex Rich has been established to handle the Boston arrangements.

The agenda remains to be worked out in final form. This will be done in line with the agreements reached at the early March meeting in London of the Continuing Committee. Detailed agenda proposals will be prepared by the Agenda Sub-committee on Disarmament and Arms Control and the Agenda Sub-committee on Scientific Cooperation, and then approved and circulated by the Conference Committee before the end of April.

The topics suggested for discussion at the Woods Hole Conference include: 1) exchange of scientists and science students; 2) international research programs; 3) international research institutes; 4) cooperation in scientific and technical assistance to new nations; 5) organizational plans.

The agenda for the Aspen Meeting has been prepared thus far in somewhat more detail. Two major papers will be prepared well in advance of the conference. The first will be prepared by the Russians and will describe in detail what they mean by "general and complete disarmament" and will describe a specific disarmament plan in terms of substance, phasing and technical detail. The second paper will be prepared by the Americans and will describe in detail what might be considered an adequate inspection scheme and will outline a specific disarmament plan in terms of substance, phasing and technical detail. Discussion of "transitional deterrence" can in part be taken care of in this paper.

These papers will not be delivered orally at the Conference. Instead at the opening session on Monday, four critiques will be presented as follows: 1) an American critique of the Russian paper; 2) a Russian critique of the American paper; 3) a Western European critique of both papers; 4) an Eastern European critique of both papers. The balance of that day will be devoted to general discussion of the papers and the critiques.

A substantial part of the work at the Aspen meeting will be done in working groups consisting of from six to eight persons. These groups will start their meetings on Tuesday.

At the London meeting, the following areas of discussion were agreed upon, each insofar as possible, to be handled by a working group:

- 1) Problems of secession of production and elimination of weapons, including means of delivery and fissile materials.
- 2) Problems of prevention of militarization of space and possible agreements in this field.



3) Interdependence of international political settlements and arms reduction, including problems of disengagement, zonal elimination of nuclear weapons, tactical nuclear weapons and military bases.

4) Implications of an American-Soviet nuclear test ban agreement.

5) Measures to reduce dangers of unintended war.

6) Rules of peaceful coexistence. What will a disarmed world look like? International security forces. Methods of settlement of international disputes.

7) Preconditions to possible success of negotiations and initiation of disarmament measures. International behavior. Conditions for creating trust and confidence.

8) The role of the scientist.

At least the following Russians will participate in the American Conferences: Topchiev, Federov, Skobeltzyn, Tamm, Vinogradov, Bogolubov, Semonov, Sissakian, Emelyanov, Khvastov, Talensky, Arzumanyan, Rubinstein, and Blochin (President of the American Academy). Others may attend as well.

Likely British attendees are Zuckerman, Cockcroft, Blackett, Bullard, Noel-Baker, Michael Howard, Mott.

There will be participants from France, Federal Republic of Germany, Canada, Australia, India, Poland, Austria, Denmark, Italy, East Germany, Bulgaria, Hungary, Yugoslavia, and Czechoslovakia.

Discussions are now taking place to determine whether or not it might be possible for scientists from the Chinese Peoples Republic to participate.



*Dr. Phelps*

STATEMENT FROM THE

SEVENTH CONFERENCE ON SCIENCE AND WORLD AFFAIRS

STOWE, VERMONT, SEPTEMBER 5-9, 1961

The Seventh Conference on Science and World Affairs was held at Stowe, Vermont, September 5-9, 1961. The forty-one scientists from twelve countries attending the Conference were:

Sir John Crawford - Australia  
Professor Hans Thirring - Austria  
Professor C. Pavan - Brazil  
Professor G. Nadjakov - Bulgaria  
Professor G. Burkhardt - Federal Republic of Germany  
Sir Edward Bullard - Great Britain  
Professor A. Haddow - Great Britain  
Sir Ben Lockspeiser - Great Britain  
Professor J. Rotblat - Great Britain  
Professor F.B. Straub - Hungary  
Dr. G. Bernardini - Italy  
Professor T. Toyoda - Japan  
Professor B.V.A. Röling - Netherlands  
Academician A.A. Blagonravov - Soviet Union  
Academician N.N. Bogolubov - Soviet Union  
Academician M.M. Dubinin - Soviet Union  
Professor V.M. Khvostov - Soviet Union  
Academician N.M. Sissakian - Soviet Union  
Professor N.A. Talensky - Soviet Union  
Academician I.E. Tamm - Soviet Union  
Academician A.V. Topchiev - Soviet Union  
Professor Harrison Brown - United States  
Dr. William Consolazio - United States  
Professor Paul Doty - United States  
Professor Bentley Glass - United States  
Professor C. O'D. Iselin - United States  
Dr. Martin Kaplan - United States  
Professor Chauncey Leake - United States  
Professor Linus Pauling - United States  
Professor Jay Orear - United States  
Professor W. Pickering - United States  
Mr. Gerard Piel - United States  
Professor I. Rabi - United States  
Professor Eugene Rabinowitch - United States  
Dr. Roger Revelle - United States  
Professor Alexander Rich - United States  
Professor Walter Rosenblith - United States  
Dr. Eugene Staley - United States

Dr. Alvin Weinberg - United States  
Professor Eugene Wigner - United States  
Professor J.R. Zacharias - United States



9/9/61

EIGHTH CONFERENCE ON SCIENCE AND WORLD AFFAIRS

Stowe, Vermont, U.S.A. Sept. 11-16, 1961

Disarmament and World Security

Participants

N.I. Bazanov (Observer)  
Institute of World Economics and  
International Relations, Moscow

Hans Bethe  
Laboratory of Nuclear Studies  
Cornell University  
Ithaca, New York

A.A. Blagonravov  
Academy of Sciences of the U.S.S.R.  
Moscow

P.M.S. Blackett  
Imperial College  
London S.W. 7

N.N. Bogolubov  
Steklov's Mathematical Institute  
Moscow

R.R. Bowie  
Center for International Affairs  
Harvard University  
Cambridge, Massachusetts

Donald Brennan  
Lincoln Laboratory  
Massachusetts Institute of Technology  
Cambridge, Massachusetts

Harrison Brown  
California Institute of Technology  
Pasadena, California

Edward Bullard  
Madingley Road  
Cambridge, England

G. Burkhardt  
Institute of Theoretical Physics  
Hannover, Germany

John Cockcroft  
Churchill College  
Cambridge, England

Paul Doty  
Harvard University  
Cambridge, Massachusetts

M.M. Dubinin  
Academy of Sciences of the U.S.S.R.  
Moscow

B.T. Feld  
Massachusetts Institute Technology  
Cambridge, Massachusetts

Trevor Gardner  
Hycon Manufacturing Co.  
Monrovia, California

Bentley Glass  
Johns Hopkins University  
Baltimore, Maryland

Michael Howard  
63 Onslow Square  
London S.W. 7

Amrom Katz (Observer)  
Rand Corporation  
Santa Monica, California

V.M. Khvostov  
Institute of History  
Moscow

Henry Kissinger  
Harvard University  
Cambridge, Massachusetts

George Kistiakowsky  
Harvard University  
Cambridge, Massachusetts

S.G.T. Korneev (Observer)  
Academy of Sciences of the U.S.S.R.  
Moscow

Charles Lauritsen  
California Institute of Technology  
Pasadena, California



Participants  
Eighth Conference

Leon Lipson  
Yale University  
New Haven, Connecticut

G. Nadjakov  
Academy of Science  
Sofia, Bulgaria

Philip Noel-Baker  
16 South Eaton Place  
London S.W. 1

Mark Oliphant  
Australian National University  
Canberra, Australia

W. Panofsky  
Stanford University  
Palo Alto, California

V.P. Pavlichenko (observer)  
Academy of Sciences of USSR  
Moscow

William Penney  
U.K. Atomic Energy Authority  
London S.W.1

F. Perrin  
Commissariat a l'energie Atomique  
Paris

J. Polanyi  
Toronto University  
Toronto

E.M. Purcell  
Harvard University  
Cambridge, Mass.

I.Rabi  
450 Riverside Drive  
New York 27

Eugene Rabinowitch  
University of Illinois  
Campaign

B.V.A. Röling  
Rijksuniversiteit te Gronigen  
Groningen, Netherlands

Pierre Rosenstiehl  
30 Boulevard Flandrin  
Paris XVI

J. Rotblat  
8 Asmara Road  
London N.W. 2

Matthew Sands (Observer)  
California Institute of Technology  
Pasadena

W.M.Sissakian  
Academy of Sciences of the USSR  
Moscow

Louis B.Sohn  
Harvard University  
Cambridge, Massachusetts

F.B. Straub  
Academy of Sciences  
Budapest

Leo Szilard  
Hotel Dupont Plaza  
Washington, D.C.

N.A. Talensky  
Academy of Sciences of the USSR  
Moscow

I.E. Tamm  
Academy of Sciences of the USSR  
Moscow

A.V. Topchiev  
Academy of Sciences of the USSR  
Moscow

Charles Townes  
Massachusetts Institute of Technology  
Cambridge, Massachusetts

Toshiyuki Toyoda  
Rikkyo University  
Ikebukuro Tokyo

Solly Zuckerman (Observer)  
Ministry of Defense  
London S.W. 1



The following participants from the Seventh Conference are staying as observers for one or two days:

Ben Lockspeiser  
Farnborough, Hants  
England

Jay Orear  
Cornell University  
New York, New York

Hans Thirring  
Strudelhofgasse 13  
Vienna, Austria



Disarmament and World Security  
September 11, 1961

Eighth Conference on  
Science and World Affairs  
September 11-16, 1961  
Stowe, Vermont, U.S.A.

BACKGROUND MATERIALS

I. Submitted Papers by Participants: (as of Monday, September 11, 1961).

1. "Disarmament and the German Problems"  
by G. Burkhardt
2. "Problems of the Cessation of Production of Fissile Materials for  
Military Purposes and the Elimination of Weapons Stockpiles"  
by Sir John Cockcroft and Sir William Penney
3. "Zones of Limited Armaments in Europe"  
by Micheal Howard
4. "The Problems of the Clandestine Nuclear Stock"  
by Philip Noel-Baker
5. "'Climate of Opinion' and a Disarmed World"  
by Mark Oliphant
6. "On Disarmament"  
by Leo Szilard
7. "A Proposed Solution of the German Problem"  
by Hans Thirring
8. "A Possible and Effective Test-Ban Agreement"  
by Toshiyuki Toyoda

II. Background Papers and Reports by Non-Participants

1. Commonwealth Prime Minister's Conference, March 1961
2. Copy of a letter from the European Federation Against Nuclear  
Arms (Office: Munchen 15, Schwantalerstrasse 64) to the  
Representative of the U.S.A. (United Kingdom) at the Geneva  
Test Ban Conference, Arthur Dean (Sir David Ormsby-Gore),  
Munchen, 16. 6. 1961
3. "The Nature of a Demilitarized World"  
by Walter Millis
4. "Critique of Some Contemporary Defense Thinking"  
by P. M. S. Blackett
5. Geneva Conference on the Discontinuance of Nuclear Weapon Tests,  
"History of Political and Technical Developments of the  
Negotiations from October 31, 1958 to August 27, 1960"  
by William J. Gehron



Background Materials continued/ 2

6. "Disarmament at a Glance"  
The Department of State
7. Soviet Disarmament Proposals: 1946 - 1958  
The Department of State
8. Reprint of the Introduction to "World Peace Through World Law," Second Edition, (Revised)  
by Grenville Clark and Louis B. Sohn
9. Russian Translation of (8)
10. French Translation of (8)
11. "The Nth Country Problem and Arms Control;" a statement of the NPA  
Special Project Committee on Security Through Arms Control and  
A Technical Report  
by W. Davidon, M. Kalkstein, and C. Hohenemser
12. "The Nuclear Test-Ban Treaty; Gateway to Peace"  
The Department of State
13. A Basic Bibliography; disarmament, arms control & national  
security  
United States Disarmament Administration, Department of State
14. Address by the Honorable Christian A. Herter, Secretary of State,  
Before the National Press Club, Washington D. C. Thursday, February  
18, 1960, at 1:00 P.M. EST.  
"National Security with Arms Limitation"
15. "Disarmament, the Intensified Effort 1955-1958"  
The Department of State
16. Bulletin of the Atomic Scientists, September, 1961, Vol. XVII, No. 7
17. H.R. 7936, In the House of Representatives, A Bill to Establish a  
United States Disarmament Agency for World Peace and Security  
Introduced by Mr. Morgan, June 29, 1961.
18. Three Documents of Current History: Report by Chairman N. S.  
Khrushchev on his Meeting with President John F. Kennedy in Vienna;  
The Soviet Memoranda on Ending Nuclear Weapons Tests and Signing  
a German Peace Treaty
19. "Inspection for Disarmament" (presented at European-American Assembly,  
1961) by Jerome Wiesner



III. Books for Distribution

1. Brennan, Donald G., ed. Arms Control, Disarmament, and National Security (George Braziller, New York, 1961).
2. Clark, Grenville, and Sohn, Louis B. World Peace Through World Law, Second edition (revised), (Harvard University Press, 1960, Cambridge, Mass.).
3. Frisch, David H. ed., Arms Reduction Program and Issues, (The Twentieth Century Fund, New York, 1961).
4. Schelling, Thomas C. and Halperin, Morton H., Strategy and Arms Control, (The Twentieth Century Fund, New York, 1961).
5. Szilard, Leo, The Voice of the Dolphins, (Simon and Schuster, New York, 1961).