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SCIENCE AWARDS PRESENTATION
AND LUNCHEON
The East Room
Thursday, Sept. 18, 1975
12:00 noon

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THE WHITE HOUSE

WASHINGTON

September 17, 1975

PRESENTATION OF NATIONAL
MEDAL OF SCIENCE

Thursday, September 18, 1975
12:00 noon (30 minutes)
Blue Room and East Room

From: Jim Cannon

I. PURPOSE

To present the National Medal of Science to the thirteen 1974 recipients.

II. BACKGROUND, PARTICIPANTS AND PRESS PLAN

A. Background

- The National Medal of Science is the Nation's highest award for distinguished achievements in science, mathematics and engineering development.
- It was established by the 86th Congress in 1959 to be awarded to individuals deserving of special recognition by reason of their outstanding contributions to knowledge in the physical, biological, mathematical, or engineering science. Since 1962 the medal has been awarded to eighty-nine distinguished scientists and engineers.
- During the past year, the President's Committee on the National Medal of Science received 204 nominations of distinguished and able individuals from the National Academies of Sciences and Engineering, from various professional societies, from colleges and universities, and from individual members of these organizations.

- Following the Awards Ceremony a luncheon will be held at the State Department with the Vice President as principal speaker. (Note: not all attending the ceremony are invited to the luncheon.)

B. Participants:

- Recipients of the medal (Tab B). Eleven of the thirteen recipients will receive their medal in person. Mrs. Bloembergen will receive the medal for her husband, Nicolaas Bloembergen, who is in the Peoples Republic of China. Dr. Saunders MacLane, will accept the medal on behalf of Kurt Godel, who is too infirm to travel.
- Dr. Guy Stever, Director of the National Science Foundation, will read the citation.
- Members of Congress. (Tab C)
- Several Cabinet and Agency heads.
- Approximately 200 other guests from the scientific community, seventeen former recipients, and two former science advisers.

C. Press Plan:

- White House Photographer
- Open Press coverage

III. TALKING POINTS

A. Meet with Recipients, their wives and Dr. Stever in the Blue Room.

- I am glad to have this opportunity to meet each of you and your wives personally before the formal presentation of the awards.
- I want you to know how pleased I am to be able to participate in honoring you. I have had the opportunity to see the important contribution of science since my early days in the Congress.

- I am anxious to see that we continue our support of science because I know how important it is to the future of the nation.
- I am looking forward to early Congressional approval of our proposal for an Office of Science and Technology policy in the White House.

B. Formal Awards Ceremony

Statement (Approved by Paul Theis) at Tab D.

- Please do not mention the luncheon following the ceremony, because some guests are not invited.

Tabs

- A. Sequence of Events
- B. Recipients of the medal
- C. Members of Congress attending
- D. Presidential Statement

RECIPIENTS

Mrs. Huberta D. Bloembergen will accept on behalf of her husband, Nicolaas. Dr. Bloembergen is in The Peoples Republic of China.

Dr. Britton Chance

Dr. Erwin Chargaff

Dr. Paul J. Flory

Dr. William A. Fowler

For Dr. Kurt Godel, Dr. Saunders MacLane, member of the National Science Board, will accept the medal. Dr. and Mrs. Godel are both too infirm to travel.

Dr. Rudolf Kompfner

Dr. James V. Neel

Dr. Linus C. Pauling

Dr. Ralph B. Peck

Dr. Kenneth S. Pitzer

Dr. James A. Shannon

Dr. Abel Wolman

CONGRESS ATTENDING LUNCHEON

Rep. Alphonzo Bell (tentative)

Rep. Ronald Dellums

Rep. Gilbert Gude

Senator Paul Laxalt

Senator Charles Mathias

Rep. Paul McCloskey

Rep. Mike McCormack

Rep. Charles Mosher

Rep. Charles Rangel

Rep. Jim Symington

Rep. Burt Talcott

Rep. Olin Teague

OTHERS ATTENDING LUNCHEON

THE CABINET

Secretary of the Treasury William E. Simon

FORMER SCIENCE ADVISERS

Dr. Edward E. David, Jr.

Dr. Jerome B. Wiesner

NATIONAL MEDAL OF SCIENCE SELECTION COMMITTEE

Dr. Keith R. Porter

Dr. John D. Baldeschwieler

Dr. R. H. Bing

Dr. and Mrs. Philip Handler

FORMER RECIPIENTS OF THE NATIONAL OF MEDAL OF SCIENCE

Dr. Luis W. Alvarez

Dr. Bernard B. Brodie

Dr. Detlev W. Bronk

Dr. Kenneth S. Cole

Dr. Robert H. Dicke

Dr. Charles S. Draper

Dr. Harold E. Edgerton

Dr. and Mrs. Herbert Friedman

Dr. Arie Jan Haagen-Smit

Dr. Vladimir Haensel

Dr. Neal E. Miller

Dr. Jerzey Neyman

Dr. Marshall W. Nirenberg

Dr. Claude E. Shannon

Dr. John W. Tukey

Dr. John H. Van Vleck

Dr. Vladimir Kosma Zworjkin



LUNCHEON

National Medal of Science

September 18, 1975



Diplomatic Functions Area
Department of State
Washington, D.C.

Menu

Jellied Consomme Madrileine
Black Icelandic Caviar

Chicken Kiev
Rice Pilaf with Peas & Pimento
Blue Lake String Beans
with Roasted Almonds

Rolls

Hearts of Lettuce
Roquefort Dressing

Lemon Meringue Tarts

Beverages



PROGRAM

Presiding H. Guyford Stever
Science Adviser

Address VICE PRESIDENT OF THE
UNITED STATES

LUNCHEON

Introduction of Recipients and Remarks Dr. Stever

Former Recipients of The National Medal of Science

1962

von Karman, Theodore*

1963

Alvarez, Luis Walter
Bush, Vannevar*
Pierce, John Robinson
van Niel, Cornelis B.
Wiener, Norbert*

1964

Adams, Roger*
Ammann, Othmar H.*
Dobzhansky, Theodosius
Draper, Charles Stark
Lefschetz, Solomon*
Miller, Neal Elgar
Morse, Harold Marston
Nirenberg, Marshall Warren
Schwinger, Julian
Urey, Harold Clayton
Woodward, Robert Burns

1965

Bardeen, John
Debye, Peter J.W.*
Dryden, Hugh L.**
Johnson, Clarence Leonard
Lederman, Leon Max
Lewis, Warren Kendall*
Rous, Francis Peyton*
Rubey, William Walden*
Simpson, George Gaylord
Van Slyke, Donald D.*
Zariski, Oscar

1966

Bjerknes, Jacob*
Chandrasekhar, Subrahmanyan
Eyring, Henry
Knipling, Edward Fred
Lipmann, Fritz Albert
Milnor, John Willard
Rose, William Cumming
Shannon, Claude Elwood
Van Vleck, John Hasbrouck
Wright, Sewall
Zworykin, Vladimir Kosma

1967

Beams, Jesse Wakefield
Birch, Albert Francis
Breit, Gregory
Cohen, Paul Joseph
Cole, Kenneth Stewart
Hammett, Louis Plack
Harlow, Harry F.
Heidelberger, Michael
Kistiakowsky, George Bogdan
Land, Edwin Herbert
Sikorsky, Igor I.*
Sturtevant, Alfred Henry*

1968

Barker, Horace Albert
Bartlett, Paul Doughty
Brodie, Bernard Bigham
Bronk, Detlev Wulf
Eckert, J. Presper
Friedman, Herbert
Lush, Jay Laurence
Newmark, Nathan Mortimore
Neyman, Jerzy
Onsager, Lars
Skinner, Burrhus Frederic
Wigner, Eugene Paul

1969

Brown, Herbert Charles
Feller, William**
Huebner, Robert Joseph
Kilby, Jack S. C.
Mayr, Ernst
Panofsky, Wolfgang K. H.

1970

Brauer, Richard Dagobert
Dicke, Robert H.
McClintock, Barbara
Mueller, George E.
Sabin, Albert B.
Sandage, Allan Rex
Slater, John Clarke
Wheeler, John Archibald
Winstein, Saul*

1973

Arnon, Daniel Israel
Djerassi, Carl
Edgerton, Harold Eugene
Ewing, William Maurice*
Haagen-Smit, Arie Jan
Haensel, Vladimir
Seitz, Frederick
Sutherland, Earl W., Jr.*
Tukey, John Wilder
Whitcomb, Richard Travis
Wilson, Robert Rathbun

*Deceased

**Awarded Posthumously





Presentation of
The National Medal of Science

September 18, 1975

THE WHITE HOUSE



As we approach our National Bicentennial, it is most fitting that we recognize the major contribution of science to the progress and prosperity we enjoy. Scientific excellence has been one of the great cornerstones of our development. It will continue to be so even more in the years ahead.

The never-ending quest for knowledge and understanding is basic in our national life. The more we know, the more we seek even further understanding. The more benefits science provides for mankind, the more science fuels the fires of human expectation. The unique skills and dedication of our nation's scientists fill us with hope and confidence that our expectations will continue to be met.

As President of the United States, it is my privilege to honor thirteen of the most distinguished of our scientists with the National Medal of Science. This Medal symbolizes the appreciation of the American people to science and to the scientific community. Its recipients today join the other eighty-nine men and women who have been so honored for their high standards of scientific achievement. Each has made a lasting contribution to our society and, indeed, to all mankind.

Gerard R. Ford

PROGRAM

INTRODUCTION

Dr. H. Guyford Stever

Science Adviser

REMARKS

THE PRESIDENT OF THE UNITED STATES

PRESENTATION OF AWARDS

THE PRESIDENT OF THE UNITED STATES

Recipients of the
National Medal of Science for 1974

Biological Sciences

BRITTON CHANCE

For his contributions to our knowledge of cellular and subcellular physiology made through work on enzyme-substrate complexes, on the kinetics of enzyme action, and on the mechanism and control of membrane-bound electron transfer during cellular respiration.

ERWIN CHARGAFF

For fundamental chemical and biological studies establishing the basis for modern concepts of the mechanisms of protein synthesis and the genetic role of nucleic acids.

JAMES VAN GUNDIA NEEL

For pioneering achievements in creating the science of human genetics and discovering the genetic basis of several human diseases.

JAMES AUGUSTINE SHANNON

For outstanding leadership in biomedical research following an earlier career in distinguished laboratory investigation of kidney function and antimalarial drugs.

Engineering Sciences

RUDOLF KOMPFFNER

For his invention of the traveling-wave tube and for major contributions to communication satellites and to optical communications.

RALPH BRAZELTON PECK

For his development of the science and art of subsurface engineering, combining the contributions of the sciences of geology and soil mechanics with the practical art of foundation design.

ABEL WOLMAN

For significant improvements in the environment and in the health and prosperity of large populations through the development of better water supply and wastewater systems for cities, regions, and entire nations.

Mathematical Sciences

KURT GÖDEL

For laying the foundation for today's flourishing study of mathematical logic.

Physical Sciences

NICOLAAS BLOEMBERGEN

For pioneering applications of magnetic resonance to the study of condensed matter and for subsequent scientific investigations and inventions concerning the interaction of matter with coherent radiation.

PAUL JOHN FLORY

For his outstanding contributions to our understanding of the modes of formation and structure of polymeric substances.

WILLIAM ALFRED FOWLER

For his scientific contributions to nuclear physics and astrophysics, which permitted him to span both disciplines to unravel the nuclear processes that control the evolution of stars.

LINUS CARL PAULING

For the extraordinary scope and power of his imagination, which has led to basic contributions in such diverse fields as structural chemistry and the nature of chemical bonding, molecular biology, immunology, and the nature of genetic diseases.

KENNETH SANBORN PITZER

For his pioneering application of statistical thermodynamics and spectroscopy to our understanding of the properties of organic and inorganic materials.

The President's Committee on the
National Medal of Science

DR. CHARLES P. SLICHTER, *Chairman*

DR. JOHN D. BALDESCHWIELER

DR. IVAN L. BENNETT, JR.

DR. R. H. BING

DR. THEODORE L. CAIRNS

DR. ROBERT H. DICKE

DR. IVAR GIAEVER

DR. WILLIAM P. LEAR

DR. WILLIAM D. McELROY

DR. NATHAN M. NEWMARK

DR. KEITH R. PORTER

DR. PHILIP HANDLER, *Ex Officio*

DR. H. GUYFORD STEVER, *Ex Officio*



The National Medal of Science was established by Act of Congress in 1959 “. . . to provide recognition for individuals who make outstanding contributions in the physical, biological, mathematical, and engineering sciences.”