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MEMORANDUM

THE WHITE HOUSE

WASHINGTON

May 18, 1983

MEMORANDUM FOR FRED F. FIELDING

FROM: JOHN G. ROBERTS *JGR*

SUBJECT: Draft Press Release Re: National
Medal of Science Recipients 

Richard Darman has requested comments on the above-referenced draft press release, including a recommendation as to whether it should be released by the White House or the Office of Science and Technology Policy, by close of business May 19. The release will accompany a ceremony in the East Room at which the President will present the Medal of Science to twelve individuals, including Edward Teller, reportedly the scientific inspiration for the "Star Wars" speech.

I have no legal objections to the draft press release. I have no strong views on whether it should be released by the White House or OSTP, but since the President will award the medals -- as provided by statute, 42 U.S.C. § 1881(d) -- it seems fitting that any announcement emanate from the White House press office.

Attachment

THE WHITE HOUSE

WASHINGTON

May 18, 1983

MEMORANDUM FOR RICHARD G. DARMAN
ASSISTANT TO THE PRESIDENT

FROM: FRED F. FIELDING *Orig. signed by FFF*
COUNSEL TO THE PRESIDENT

SUBJECT: Draft Press Release Re: National
Medal of Science Recipients

Counsel's Office has reviewed the above-referenced draft release and finds no objection to it from a legal perspective. We have no strong views on whether the announcement should be released from the Office of Science and Technology Policy or the White House. Since the President himself will present the awards, however, it seems fitting that any announcement emanate from the White House press office.

FFF:JGR:aw 5/18/83

cc: FFFielding
✓ JGRoberts
Subj.
Chron

THE WHITE HOUSE

WASHINGTON

May 18, 1983

MEMORANDUM FOR RICHARD G. DARMAN
ASSISTANT TO THE PRESIDENT

FROM: FRED F. FIELDING
COUNSEL TO THE PRESIDENT

SUBJECT: Draft Press Release Re: National
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FFF:JGR:aw 5/18/83

cc: FFFielding
JGRoberts
Subj.
Chron

WHITE HOUSE CORRESPONDENCE TRACKING WORKSHEET

☐ O - OUTGOING☐ H - INTERNAL☐ I - INCOMINGDate Correspondence
Received (YY/MM/DD) / /

Name of Correspondent: _____

☐ MI Mail Report

User Codes: (A) _____ (B) _____ (C) _____

Subject: Draft Press Release re: National
Medal of Science Recipients

ROUTE TO:

ACTION

DISPOSITION

Office/Agency (Staff Name)

Action
CodeTracking
Date
YY/MM/DDType
of
Response

Code

Completion
Date
YY/MM/DD

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ORIGINATOR

83/05/18

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Send all routing updates to Central Reference (Room 75, OEOB).

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WHITE HOUSE STAFFING MEMORANDUMDATE: May 17 ACTION/CONCURRENCE/COMMENT DUE BY: May 19 c.o.b.SUBJECT: DRAFT PRESS RELEASE RE NATIONAL MEDAL OF SCIENCE RECIPIENTS

	ACTION	FYI		ACTION	FYI
VICE PRESIDENT	☐	☐	GERGEN	☒	☐
MEESE	☐	☒	HARPER	☒	☐
BAKER	☐	☒	JENKINS	☐	☐
DEAVER	☐	☒	MURPHY	☐	☐
STOCKMAN	☐	☐	ROLLINS	☐	☐
CLARK	☐	☒	WHITTLESEY	☒	☐
DARMAN	☐ P	☒ SS	WILLIAMSON	☒	☐
DUBERSTEIN	☒	☐	VON DAMM	☐	☐
FELDSTEIN	☐	☐	BRADY/SPEAKES	☒	☐
FIELDING	☒	☐	ROGERS	☐	☐
FULLER	☒	☐		☐	☐

Remarks:

Please provide any comments/recommendations as to whether the attached should be released by the WH or the Office of Science & Technology Policy. Also, please provide any edits by Thursday, May 19th.

Thank you.

Richard G. Darman
Assistant to the President
(x2702)

Response:

RECEIVED
SS

THE WHITE HOUSE

WASHINGTON

'83 MAY 17 P5:14

May 17, 1983

MEMORANDUM FOR DICK DARMAN

FROM: JAY KEYWORTH

for Regan

SUBJECT: Press Release for National
Medal of Science

Attached is a draft press release concerning the President's awarding National Medals of Science to 12 recipients at the White House on May 24. There will be a ceremony in the East Room with 150 guests and full press coverage.

We need a decision as to whether the White House or OSTP should issue the release.

DRAFT PRESS RELEASE

REAGAN AWARDS MEDAL OF SCIENCE TO 12

President Reagan today awarded the National Medal of Science, the Nation's highest award for distinguished scientific achievement, to 12 scientists and engineers.

At ceremonies in the White House, Mr. Reagan lauded the recipients for "their outstanding contributions to knowledge in the physical, biological, mathematical and engineering sciences."

The recipients of the Medal were:

Philip W. Anderson, Department of Physics at Princeton University, for his fundamental and comprehensive contributions to the theoretical understanding of condensed matter.

Seymour Benzer, Professor of Neuroscience at the California Institute of Technology, for elucidating the fine structure of the gene and unifying the classical and molecular concepts of gene structure and function.

Glenn W. Burton, Department of Agriculture at the Coastal Plain Station, Tifton, Georgia, for outstanding contributions to the biological sciences that have helped to feed the hungry, protect and beautify the environment, and provide recreation for millions.

Mildred Cohn, Department of Biophysics and Physical Biochemistry at the University of Pennsylvania, for pioneering the use of stable isotopic tracers and nuclear magnetic resonance spectroscopy in the study of the mechanisms of enzymatic catalysis.

Frank A. Cotton, Professor of Chemistry at Texas A & M University, for contributions of unique range, depth, and importance to inorganic and structural chemistry, especially the discovery and elucidation of multiple metal-metal bonds and the application of group theory to chemical problems.

Edward E. Heinemann, Rancho Sante Fe, California, for his outstanding contribution as a creator-designer and engineer responsible for the design and production of a series of famous aircraft for the military forces of the United States and Allied Nations.

Donald L. Katz, Department of Chemical Engineering at the University of Michigan, for solving many practical engineering problems by delving into a wide group of sciences and making their synergistic effects evident.

Yoichiro Nambu, Enrico Fermi Institute at the University of Chicago, for seminal contributions to the understanding of elementary particles and their interactions.

Marshall H. Stone, Professor Emeritus at the University of Massachusetts, for his original synthesis of analysis, algebra, and topology, the new vital area of functional analysis in modern mathematics.

Gilbert Stork, Department of Chemistry at Columbia University, for his contributions as one of the world's most innovative and productive organic synthetic chemists who has discovered a variety of important synthetic reactions which have made possible the synthesis of some of the most complicated and important biologically active compounds.

Edward Teller, Hoover Institution at Stanford University, for his outstanding contribution to molecular physics, understanding the origin of stellar energy, the theory and application of fusion reaction, the field of nuclear safety, and for his continued leadership in science and technology.

Charles H. Townes, University Professor, Department of Physics at the University of California, Berkeley, for fundamental contributions to the understanding of matter through its interaction with electromagnetic radiations and the application of this knowledge to the service of mankind, most notably in the invention of the maser and laser.

The National Medal of Science was established by Public Law 86-209 in 1959. Recommendations for candidates are made by a Presidential Committee which receives nominations from the National Academy of Sciences and other scientific and engineering sources. The Committee selects its candidates from among these nominations and transmits its recommendations to the President for final decision.

In making its selections, the Committee considers the total impact of an individual's work on the present state of physical, biological, mathematical, engineering, behavioral or social sciences. In addition, achievements of an unusually significant nature are considered and judged in relation to the potential effects of such achievements on the development of scientific thought. Also, consideration is given to distinguished service in the general advancement of science and engineering when accompanied by substantial contributions to the content of science at some time.

Since 1962, when the first awards were made, 166 medals have been awarded, including the 12 awarded today.

MEMORANDUM

THE WHITE HOUSE

WASHINGTON

May 23, 1983

MEMORANDUM FOR FRED F. FIELDING

FROM: JOHN G. ROBERTS *JGR*

SUBJECT: Remarks: National Medal
of Science Presentation

Richard Darman has requested that comments on the above-referenced remarks be sent directly to Aram Bakshian by noon today. The brief remarks stress the importance of maintaining our technological leadership in the face of increasing competition from abroad. I have no legal objections.

Attachment

THE WHITE HOUSE

WASHINGTON

May 23, 1983

MEMORANDUM FOR ARAM BAKSHIAN, JR.
DEPUTY ASSISTANT TO THE PRESIDENT

FROM: FRED F. FIELDING *FFF/RAH*
COUNSEL TO THE PRESIDENT

SUBJECT: Remarks: National Medal
of Science Presentation

Counsel's Office has reviewed the above-referenced remarks and finds no objection to them from a legal perspective.

cc: Richard G. Darman

FFF:JGR:aw 5/23/83

cc: ~~FFF~~Fielding
✓ JGRoberts
Subj.
Chron

THE WHITE HOUSE
WASHINGTON

May 23, 1983

MEMORANDUM FOR ARAM BAKSHIAN, JR.
DEPUTY ASSISTANT TO THE PRESIDENT

FROM: FRED F. FIELDING
COUNSEL TO THE PRESIDENT

SUBJECT: Remarks: National Medal
of Science Presentation

Counsel's Office has reviewed the above-referenced remarks and finds no objection to them from a legal perspective.

cc: Richard G. Darman

FFF:JGR:aw 5/23/83

cc: FFFielding
JGRoberts
Subj.
Chron

WHITE HOUSE CORRESPONDENCE TRACKING WORKSHEET

☐ O - OUTGOING☐ H - INTERNAL☐ I - INCOMINGDate Correspondence
Received (YY/MM/DD) 1 / 1Name of Correspondent: Richard G. Darman☐ MI Mail Report

User Codes: (A) _____ (B) _____ (C) _____

Subject: Remarks: National Medal of
Science Presentation

ROUTE TO:

ACTION

DISPOSITION

Office/Agency (Staff Name)	Action Code	Tracking Date YY/MM/DD	Type of Response	Code	Completion Date YY/MM/DD
<u>W. Holland</u>	ORIGINATOR	<u>83105120</u>			<u>1 / 1</u>
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Document No. _____

WHITE HOUSE STAFFING MEMORANDUM

DATE: May 20 ACTION/CONCURRENCE/COMMENT DUE BY: NOON, MONDAY, May 23

SUBJECT: REMARKS: NATIONAL MEDAL OF SCIENCE PRESENTATION

	ACTION	FYI		ACTION	FYI
VICE PRESIDENT	☐	☐	GERGEN	☒	☐
MEESE	☐	☒	HARPER	☒	☐
BAKER	☐	☒	JENKINS	☐	☐
DEAVER	☐	☒	MURPHY	☐	☐
STOCKMAN	☐	☒	ROLLINS	☐	☐
CLARK	☒	☐	WHITTLESEY	☒	☐
DARMAN	☐ P	☒ SS	WILLIAMSON	☒	☐
DUBERSTEIN	☒	☐	VON DAMM	☐	☐
FELDSTEIN	☐	☐	BRADY/SPEAKES	☒	☐
<u>FIELDING</u>	☒	☐	ROGERS	☐	☐
FULLER	☒	☐	BAKSHIAN	☐	☒
			FISCHER	☒	
			HENKEL		

Remarks:

Please provide any edits directly to Aram Bakshian by Noon, Monday, May 23rd, with an information copy to my office.

Thank you.

Richard G. Darman
Assistant to the President
(x2702)

Response:

(Rohrabacher/AB)
May 20, 1983
3:30 p.m.

PRESIDENTIAL REMARKS: NATIONAL MEDAL OF SCIENCE PRESENTATION
TUESDAY, MAY 24, 1983

It's a privilege for me today to play a part in honoring twelve Americans who have made outstanding contributions to our way of life through science and engineering. As I read over the list of their activities, I'm impressed not only by the profound intellectual achievements represented, but also by the wide range of their expertise. We have before us leaders in the fields of physics, biology, agriculture, chemistry, aircraft design, engineering, and mathematics. It's a testimony to the strength of American science and engineering that we have such men and women whose genius is acknowledged not only in this country, but around the world.

It's fitting that we are taking special care to honor the recipients of the National Medal of Science Award at a time when our technological leadership is being challenged from abroad. In the past, too many Americans tended to take our preeminence in science and engineering for granted. We must never forget that what we enjoy now is the result of superior professionals, like those we are honoring. And today, as never before, these individuals have international competition.

I would hope that today's event does not go unnoticed by America's young people, and that many of them will be encouraged to emulate the example of these distinguished citizens. We, as a Nation, cannot rest on our laurels in this vital area of concern; and American young people need to know their well-being depends

on our continued progress in science and technology. Only by excelling in this vital area can we hope to maintain technological momentum -- momentum so essential to our freedom and our prosperity.

As I went through the briefing papers about today's recipients something else struck me. Among those we honor today are some who were not born in this country, but are naturalized citizens. It is a tribute to our society that creative and diligent men and women like these have chosen America as their adopted land, and have found here fertile soil for their talent. Many scientists and engineers come to us from places where repression stifles creativity and chokes off opportunity for expression and development. America has gained so much by the infusion of such talent, and today all our citizens are better off because of it.

Let me express again the gratitude of the American people to all of you we honor with this Medal. We deeply appreciate what you've done, and we thank you.

Now, my Science Advisor, Jay Keyworth, will read the citations for the awards.

[President's Conclusion]

Congratulations to all of you and God bless you.

THE WHITE HOUSE

Office of the Press Secretary

For Immediate Release

May 24, 1983

REMARKS OF THE PRESIDENT
AT THE
PRESENTATION OF THE NATIONAL MEDAL OF SCIENCE AWARDS

The East Room

12:05 P.M. EDT

THE PRESIDENT: It's a privilege for me today to play a part in honoring 12 Americans who've made outstanding contributions to our way of life through science and engineering. And as I read over the list of their activities, I'm impressed not only by the profound intellectual achievements that are represented but also by the wide range of their expertise. We have before us leaders in the fields of physics, biology, agriculture, chemistry, aircraft design, engineering, and mathematics.

It's a testimony to the strength of American science and engineering that we have such men and women whose genius is acknowledged not only in this country but around the world. It's fitting that we're taking special care to honor the recipients of the National Medal of Science Award at a time when our technological leadership is being challenged from abroad.

In the past, too many Americans tended to take our preeminence in science and engineering for granted. We must never forget that what we enjoy now is the result of superior professionals like those that we're honoring. And today, as never before, these individuals have international competition. I would hope that today's event does not go unnoticed by America's young people and that many of them will be encouraged to emulate the example of these distinguished citizens.

We as a nation cannot rest on our laurels in this vital area of concern, and American young people need to know their well-being depends on our continued progress in science and technology. Only by excellence in this vital area can we hope to maintain technological momentum -- momentum that's so essential to our freedom and our prosperity.

As I went through the briefing papers about today's recipients, something else struck me. Among those we honor today are some who were not born in this country but are naturalized citizens. And it's a tribute to our society that creative and diligent men and women like these have chosen America as their adopted land and have found here fertile soil for their talent. Many scientists and engineers come to us from places where repression stifles creativity, chokes off opportunity for expression and development. America has gained so much by the infusion of such talent, and today all our citizens are better off because of it.

So let me express again the gratitude of the American people to all of you that we honor today with this medal. We deeply appreciate you -- what you've done. We thank you. And now my science adviser, Jay Keyworth, will read the citations for the awards. And I'll go over here. (Laughter.)

MR. KEYWORTH: First we'll begin

MORE

with the biological sciences, Seymour Benzer for elucidating the fine structure of the gene and unifying the classical and molecular concepts of gene structure and function. (Applause.)

Glenn W. Burton for outstanding contributions to the biological sciences that have helped to feed the hungry, protect and beautify the environment and provide recreation for millions. (Applause.)

Now, Mildred Cohn for pioneering the use of stable isotopic tracers and nuclear magnetic resonance spectroscopy in the study of the mechanism of enzymatic catalysis. (Applause.)

Now, in chemistry, Albert Cotton for contributions of unique range, depth and importance to inorganic and structural chemistry, especially the discovery and elucidation of multiple metal-metal bonds and the application of group theory to chemical problems. (Applause.)

Gilbert Stork for his contributions as one of the world's most innovative and productive synthetic organic chemists, whose discoveries have made possible the synthesis of some of the most complicated and important biologically active compounds. (Applause.)

In the engineering sciences, Edward H. Heinemann for his outstanding contribution as a creator-designer and engineer responsible for the design and production of a series of famous aircraft for the military forces of the United States and allied nations. (Applause.)

Donald L. Katz for solving many practical chemical and petroleum engineering problems by delving into a wide group of sciences and making their synergistic effects evident. (Applause.)

In the physical sciences, Philip W. Anderson for his fundamental and comprehensive contributions to the theoretical understanding of condensed matter, most notably his work on electron localization in highly disordered solids and the nature of localized magnetic states in metals. (Applause.)

Yoichiro Nambu, for his seminal contributions to the understanding of elementary particles and their interactions. (Applause.)

Edward Teller, for his outstanding contributions to molecular physics, understanding the origin of stellar energy, the theory and application of fusion reactions, the field of nuclear safety, and for his continued leadership in science and technology. (Applause.)

Charles H. Townes, for fundamental contributions to the understanding of matter through its interaction with electromagnetic radiation and the application of this knowledge to the service of mankind, most notably in leading to the invention of the maser and the laser. (Applause.)

The 12th Medal recipient is unable to be with us today. But his citation reads: "Marshall H. Stone, for his original synthesis of analysis, algebra, and topology into the new, vital area of functional analysis in modern mathematics." (Applause.)

MORE

THE PRESIDENT: Having just come, the last weekend, from speaking at a graduation and, now, here -- and standing before all these eminent experts in their fields -- I face you with mixed emotions and a greatly compounded feeling of guilt for much of four years that I wasted in my own college days. (Laughter.)

But God bless all of you, and thank all of you for what you have done for the world and for all of us. (Applause.) And thank all of you ladies and gentlemen. (Applause.)

END

12:15 P.M. EDT

THE WHITE HOUSE

WASHINGTON

April 4, 1984

MEMORANDUM FOR FRED F. FIELDING

FROM: JOHN G. ROBERTS *JGR*
SUBJECT: National Medal of Science

Richard Darman has asked for our views by April 6 on a memorandum for the President from Science Advisor Jay Keyworth, submitting 19 names for the National Medal of Science. Pursuant to 42 U.S.C. § 1881, the President is authorized to award the National Medal of Science to no more than 20 individuals per year. Recipients must be "deserving of special recognition by reason of their outstanding contributions to knowledge in the physical, biological, mathematical, engineering or social and behavioral sciences," 42 U.S.C. § 1881(a), and must be American citizens or aliens lawfully admitted for permanent residence, 42 U.S.C. § 1881(c). Executive Order 11287 establishes a Committee on the National Medal of Science, charged with submitting recommendations to the President.

Keyworth's memorandum does not state that the listed individuals have been recommended by the Committee, pursuant to the procedures established in the Executive Order, nor does it expressly confirm that the prospective honorees satisfy the citizenship or permanent resident alien requirements of the statute. Accordingly, I contacted Jim Ling of the Office of Science and Technology Policy, who is responsible for this program. Ling confirmed that the list of nominees was submitted by the Committee, pursuant to the Executive Order, and that all of the nominees are American citizens. In light of Ling's representations, I have no legal objections.

Attachment

THE WHITE HOUSE

WASHINGTON

April 4, 1984

MEMORANDUM FOR RICHARD G. DARMAN
ASSISTANT TO THE PRESIDENT

FROM: FRED F. FIELDING *Orig. signed by FFF*
COUNSEL TO THE PRESIDENT

SUBJECT: National Medal of Science

Counsel's Office has reviewed the memorandum for the President from Jay Keyworth, recommending 19 individuals for the National Medal of Science. The President is authorized by 42 U.S.C. § 1881 to award this medal to no more than 20 individuals in any calendar year. Recipients must be either American citizens or permanent resident aliens. Based on representations by Jim Ling of the Office of Science and Technology Policy that the 19 individuals were recommended by the President's Committee on the National Medal of Science, pursuant to Executive Order 11287, and that all 19 are American citizens, Counsel's Office has no legal objections to proceeding with the awards.

FFF:JGR:aea 4/4/84

cc: FFFielding/JGRoberts/Subj/Chron

THE WHITE HOUSE

WASHINGTON

April 4, 1984

MEMORANDUM FOR RICHARD G. DARMAN
ASSISTANT TO THE PRESIDENT

FROM: FRED F. FIELDING
COUNSEL TO THE PRESIDENT

SUBJECT: National Medal of Science

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FFF:JGR:aea 4/4/84
cc: FFFielding/JGRoberts/Subj/Chron

WHITE HOUSE CORRESPONDENCE TRACKING WORKSHEET

☐ O - OUTGOING☐ H - INTERNAL☐ I - INCOMINGDate Correspondence
Received (YY/MM/DD) 1/1Name of Correspondent: Richard Daiman☐ MI Mail Report

User Codes: (A) _____ (B) _____ (C) _____

Subject: National Medal of Science

ROUTE TO:

ACTION

DISPOSITION

Office/Agency (Staff Name)	Action Code	Tracking Date YY/MM/DD	Type of Response	Completion Date YY/MM/DD
<u>CUHOLL</u>	ORIGINATOR	<u>84 04 03</u>		<u>1/1</u>
<u>CUAT 18</u>	Referral Note: <u>D</u>	<u>84 04 03</u>		<u>5 84 04 03</u>
	Referral Note:	<u>1/1</u>		<u>1/1</u>
	Referral Note:	<u>1/1</u>		<u>1/1</u>
	Referral Note:	<u>1/1</u>		<u>1/1</u>
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WHITE HOUSE STAFFING MEMORANDUM

DATE: 4/2/84 ACTION/CONCURRENCE/COMMENT DUE BY: 4/6/84

SUBJECT: NATIONAL MEDAL OF SCIENCE

	ACTION FYI			ACTION FYI	
VICE PRESIDENT	☐	☐	McFARLANE	☒	☐
MEESE	☐	☒	McMANUS	☐	☐
BAKER	☐	☒	MURPHY	☐	☐
DEAVER	☒	☐	OGLESBY	☐	☐
STOCKMAN	☐	☐	ROGERS	☐	☐
DARMAN	☐	☒	SPÉAKES	☐	☐
FELDSTEIN	☐	☐	SVAHN	☒	☐
FIELDING	☒	☐	VERSTANDIG	☐	☐
FULLER	☒	☐	WHITTLESEY	☐	☐
HERRINGTON	☒	☐	<u>RYAN</u>	☐	☒
HICKEY	☐	☐		☐	☐
JENKINS	☐	☐		☐	☐

REMARKS:

Please provide any comments/recommendations by Friday, April 6th.

Thank you.

RESPONSE:

Richard G. Darman
Assistant to the President
Ext. 2702

1984 APR -3 AM 9:08

THE WHITE HOUSE

WASHINGTON

April 2, 1984

MEMORANDUM FOR THE PRESIDENT

FROM: JAY KEYWORTH *Jay Keyworth*

SUBJECT: Presentation of the National Medal of Science

Public Law 86-209, signed into law by President Eisenhower in 1959, authorizes the President to award a National Medal of Science. The award is "to individuals who, in his judgment, are deserving of special recognition by reason of their outstanding contributions to knowledge in the physical, biological, mathematical, engineering or social and behavioral sciences."

The award is viewed by the scientific community as a strong indication of your personal interest in science. It symbolizes recognition of: (1) the value of excellence in scientific research and its contributions to the strength and security of the Nation and the well-being of its citizens; and (2) the importance of the accomplishments of individual scientists to the national effort. Last year you presented medals to 12 distinguished scientists, among whom was Edward Teller.

The purpose of this memorandum is to recommend that you award Medals of Science to the following eighteen pre-eminent U.S. scientists and engineers:

Dr. Howard L. Bachrach
Dr. Paul Berg
Dr. E. Margaret Burbidge
Dr. Maurice Goldhaber
Dr. Herman H. Goldstine
Mr. William R. Hewlett
Dr. Roald Hoffman
Dr. Helmut E. Landsberg
Dr. George M. Low
Dr. Walter H. Munk

Dr. George C. Pimentel
Dr. Frederick Reines
Dr. Wendell L. Roelofs
Dr. Bruno B. Rossi
Dr. Berta Scharrer
Dr. J. Robert Schrieffer
Dr. Isadore Manual Singer
Dr. John G. Trump

Dr. Richard N. Zare

These individuals have each been selected for the excellence and significance of their total contributions to their chosen fields. Brief descriptions of their current affiliations and their major achievements are attached.

With your concurrence I will make the necessary preparations for the award ceremony.

RECOMMENDATION FOR THE NATIONAL MEDAL OF SCIENCE

Howard L. Bachrach, Chief Scientist, USDA, Plum Island, New York.
For his pioneering research in molecular virology, including identification of the immunizing protein, and his collaborative role in the use of gene splicing to produce the first effective protein vaccine for use in animals or humans.

Paul Berg, Professor of Biochemistry, Stanford.
For fundamental contributions to understanding the mechanisms of gene expression, for the development of recombinant DNA, and for a deep concern for its safe and humane application to medicine.

E. Margaret Burbidge, Professor of Astronomy, UC-San Diego.
For leadership in observational astronomy. Her spectroscopic investigations have provided crucial information about the chemical composition of stars and the nature of quasistellar objects.

Maurice Goldhaber, Distinguished Scientist, Brookhaven National Lab.
For his many contributions to all aspects of nuclear physics and more recently particle physics, and for the leadership he has provided the scientific community, as an administrator of science, as a shaper of scientific thought, and as a prolific source of stimulating ideas.

Herman H. Goldstine, IBM Fellow, Princeton.
For his fundamental contributions to the development of the digital computer, computer programming and numerical analysis.

William R. Hewlett, President, Hewlett-Packard Company.
For his pioneering accomplishments in the creation and manufacturing of electronics and semi-conductor devices and electronic test instruments.

Roald Hoffman, Professor of Physical Science, Cornell.
His creative applications of theory to organic and inorganic chemistry have brought together the world community of chemists. The magnitude and uniqueness of his contributions to modern chemistry and the scientific process are contributing to an ever-improving understanding of chemistry.

Helmut E. Landsberg, Research Professor, Univ. of Maryland.
In recognition of his outstanding contributions to the advancement of knowledge and the applications of climatology, his furtherance of academic achievement and educational programs in the field; and for the exceptional leadership he gave to the climatological sciences and services of the United States government.

George M. Low, President, Rensselaer Polytechnic Institute.
For his outstanding contributions to the nation's manned space program, exceptional leadership in engineering education, and wise counsel in public policy aspects of science and engineering.

Walter H. Munk, Professor of Geophysics, UC-San Diego.
For his unique contributions to the sciences of geophysics and physical oceanography which have led to a better understanding of the earth's rotation, the complexities of ocean waves, tidal processes and acoustic propagation.

George C. Pimentel, Director, UC-Berkeley.
For his varied and ingenious use of infrared spectroscopy to study chemical bonding and molecular dynamics, and for his discovery of the first chemically pumped laser, which has had strong scientific impact as well as practical applications.

Frederick Reines, Professor of Physics, UC-Irvine.
For the experimental discovery of the free neutrino and the elucidation of its properties and interactions and the testing of fundamental conservation laws of physics.

Wendell L. Roelofs, Professor of Insect Biochemistry, Cornell.
For his fundamental contributions to basic and applied biology in the field of insect pheromones, their chemical composition and blends, their biosynthesis, how insects perceive and respond to them, and their use in insect pest management.

Bruno B. Rossi, Professor of Physics, MIT.
For fundamental contributions to physics and astronomy through his investigations into the nature and origin of cosmic rays and his initiatives that led to the direct detection of the solar wind and to the discovery of extra-solar x-ray sources.

Berta Scharrer, Professor of Anatomy, Albert Einstein College.
For her pioneering contributions in establishing the concept of neurosecretion and the demonstration of the central role of neurosecretion and neuropeptides in the integration of animal function and development.

J. Robert Schrieffer, Professor of Physics, Univ. of Pennsylvania.
In recognition of his insight into cooperative effects in solids and solid surfaces dependent on interacting many-body systems and for his leadership in showing how one couples formal theoretical work with experimental findings to make significant advances in the area of condensed matter physics.

Isadore Manual Singer, Professor of Mathematics, UC-Berkeley.
For his inspired revival of differential geometry and its connections to analysis; for his contribution to the discovery and applications of the index theorem for differential operators; and for his leadership in using geometric and topological methods in connection with theoretical physics.

John G. Trump, Professor of Electrical Engineering, MIT.
For his introduction of new machines and methods for the
widespread beneficial application of ionizing radiation to
medicine, industry and atomic physics.

Richard N. Zare, Professor of Chemistry, Stanford.
For his seminal contributions to molecular spectroscopy,
photochemistry, and chemical reaction dynamics, especially
for his incisive theoretical methods and the development of
the experimental technique of laser induced fluorescence.