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Subseries: Chron File, 1989-1993

OA/ID Number: 13556
Folder ID Number: 13556-003

Folder Title:
American Assoc. for the Advancement of Science 2/15/91 [OA 6029]

Stack:	Row:	Section:	Shelf:	Position:
G	26	16	6	6

WHITE HOUSE STAFFING MEMORANDUM

91 FEB 14 P5:12

DATE: 2/14/91 ACTION/CONCURRENCE/COMMENT DUE BY: ---

SUBJECT: PRESIDENTIAL REMARKS: AMERICAN ASSOC. FOR THE ADVANCEMENT OF SCIENCE

	ACTION FYI			ACTION FYI	
VICE PRESIDENT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	MCCLURE	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SUNUNU	<input type="checkbox"/>	<input type="checkbox"/>	NEWMAN	<input type="checkbox"/>	<input type="checkbox"/>
SCOWCROFT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	PORTER	<input type="checkbox"/>	<input checked="" type="checkbox"/>
DARMAN	<input type="checkbox"/>	<input checked="" type="checkbox"/>	ROGICH	<input type="checkbox"/>	<input checked="" type="checkbox"/>
BRADY	<input type="checkbox"/>	<input checked="" type="checkbox"/>	UNTERMEYER	<input type="checkbox"/>	<input type="checkbox"/>
CARD	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>BROMLEY</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
DEMAREST	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>ALBRECHT</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
FITZWATER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>ROGERS</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GRAY	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>WINSTON</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
HOLIDAY	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>BOSKIN</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

REMARKS:

The attached has been forwarded to the President.

RESPONSE:

PHILLIP D. BRADY
Assistant to the President
and Staff Secretary
Ext. 2702

THE WHITE HOUSE
WASHINGTON

91 FEB 14 PM 4:12

FEBRUARY 14, 1991

INFORMATION

MEMORANDUM FOR THE PRESIDENT

THROUGH: CHRISS WINSTON *W*

FROM: MARK LANGE *L*

SUBJECT: AMERICAN ASSOC. FOR THE ADVANCEMENT OF SCIENCE

Attached are revised remarks for Friday's meeting with members of the American Association for the Advancement of Science.

The revised draft cites the National Energy Strategy, and includes a caution about excessive CAFE standards.

(Lange/Cawley)
February 14, 1991
4:00 P.M.
[AAAS2.DOC]

PRESIDENTIAL REMARKS: AMERICAN ASSOCIATION FOR
THE ADVANCEMENT OF SCIENCE
ROOM 450
10:00
FRIDAY, FEBRUARY 15, 1991

[[Thank you, Dr. Atkinson. Dr. Langenberg, Dr. Lederman
["LEDDERMAN"]; Dr. Rowland; Dr. Bromley; distinguished friends of
science.]] It's an honor to be here. Since its founding nearly
a century and a half ago, your association has watched over the
most far-reaching and breathtaking transformation that human
society has ever known. Science and technology have brought
unprecedented prosperity, mobility, health, and security to
millions, around the world.

Today, the spirit of innovation is alive and well in
America. [[Of course, times have changed. Some say that if
Edison had invented the lightbulb today, we'd have scores of
studies citing the dangers of electricity -- and the newspapers
would headline the story, "Candle Industry Threatened."]]

Science and technology have touched all of our lives, from
the way we do our jobs to the kind of medical care we receive.
And especially in the last few weeks, anyone who's been near a
television has seen dramatic evidence of how technology is
changing the face of war. Modern weapons are making it possible
to face down aggression without the degree of widespread
destruction and loss of civilian life of wars past. That's why
I'll be visiting the workers who make the Patriot missile, later
today.

Our investment in defense research and development over the past decade is now saving the lives of Americans -- of our allies -- and even of our adversaries. I am certain that this struggle will end decisively. Let us all pray that it ends quickly. \\\

Next week, the administration will release its National Energy Strategy -- with new public and private initiatives to increase energy efficiency and conservation, preserve our environment, encourage alternative sources of energy, and reduce our vulnerability to foreign oil supply disruptions.

Now, some will say that reducing our energy vulnerability is not enough -- that we should take more drastic measures for total energy independence. But then, there's reality. We are a long way from achieving total energy independence. We must avoid unwise and extreme measures, such as oil import fees and excessive CAFE standards for automobiles that would seriously hurt American consumers, American jobs, and American industries. Instead, we must pursue an energy strategy that is reasonable, balanced, and comprehensive. That will keep us on the course toward strong economic growth.

Science and technology will also be a crucial key to our economic strength. If the past is prologue, our economic future is going to be very bright indeed. Over a third of the economic growth we've enjoyed since the 1930's has been the result of new knowledge, including science and technology. And beyond advances in prosperity and security, work on the frontiers of knowledge is one of humanity's greatest adventures.

For all of these reasons, the budget that I sent to Capitol Hill last week included a 13 percent increase for research and development. That increase is one of the largest in the budget -- and it's proof of our determination to make the investments needed to ensure this country's continued leadership. We intend to help scientists spend less time searching for funding, and more time making breakthroughs. \\\

One of our highest priorities is basic research -- especially by the individual scientist or small team. To support their work, our budget calls for a billion dollar increase in basic research. Funding at the National Science Foundation would go up 18 percent, which would put the NSF budget back on the track toward the doubling that I've long sought -- and increases in basic research at the N.I.H., Department of Energy, NASA, and the Department of Agriculture will add to the base of knowledge on which the future is being built.

At the same time, this budget makes a strong commitment to the facilities that many individual scientists will need to reach the future frontiers of their fields. That means nuclear accelerators in physics, telescopes in astronomy, a strong space science program at NASA, and the human genome project in biology -- all projects that will have a profound impact on humanity.

Over the next year, the United States will spend over a billion dollars on the U.S. Global Change Program. Part of our efforts take the form of a Mission to Planet Earth, where satellites will monitor the Earth from space. And our Mission

from Planet Earth will extend human curiosity to frontiers beyond our own planet, to the Moon, to the planets, and beyond.

But along with record federal investment in R & D, totalling \$76 billion, we are committed to working with American industry to make it easier for companies to capitalize on the discoveries of basic science -- and to develop new products and processes. That's why I am again calling on the Congress to make the research and experimentation tax credit permanent -- to make a long-term commitment to our technological future.

We face a crucial challenge in developing the generic technologies important to both the public and private sectors. That's why the budget supports work in high performance computing and communications, in energy research and development, in aeronautics, and in biotechnology -- the basis for some of the most promising industries of the 21st century.

Technology may be the key to the future, but people are the key to technology. The National Education Goals we established with the nation's governors explicitly recognize this link. One of our most ambitious goals is for American students to be first in the world in science and math achievement by the year 2000.

Our budget includes substantial funding increases for math and science education. But those math and science goals will never be achieved if they're seen as goals for government alone. All sectors of society must recognize the importance of scientific literacy and strive to achieve it.

And that's where the AAAS comes in. Your Project 2061 is working where all lasting change must occur -- at the local level -- to transform the teaching of mathematics and science.

Last fall, we had 200 of the best mathematics and science teachers in the country to the White House -- and more than a few of those teachers pointed out that kids are natural-born scientists. They delight in the sheer pleasure of learning new things, making something work, understanding the world.

This delight is something most scientists never lose. The Nobel-prize-winning geneticist Barbara McClintock once said of her work, "I did it because it was fun. I couldn't wait to get up in the morning. I never thought of it as science."

The sheer adventure of science is one of the main reasons for holding this meeting -- and for the continued vitality of the "Triple-A, S." Sharing science's sense of adventure through education and outreach has never been more important than now.

Your work is vitally important. Of all humanity's concerns, the power of knowing is the greatest pursuit -- the surest promise of a brighter future -- the greatest covenant we keep with future generations.

So let us pursue the adventure of science as a sacred trust. And let us keep the fire of the American mind burning brightly, for the sake of the future our children deserve.

Thank you all. May God bless the United States of America.

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**AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE
FRIDAY, FEBRUARY 15, 1991 \ ROOM 450 \ 10:00**


**THANK YOU, DR. BROMLEY. DR. ATKINSON,
DR. LANGENBERG, DR. LEDERMAN ["LEDDERMAN"],
DR. ROWLAND; DISTINGUISHED FRIENDS OF SCIENCE. IT'S AN
HONOR TO BE HERE. SINCE ITS FOUNDING NEARLY A CENTURY
AND A HALF AGO, YOUR ASSOCIATION HAS WATCHED OVER THE
MOST FAR-REACHING AND BREATHTAKING TRANSFORMATION THAT
HUMAN SOCIETY HAS EVER KNOWN.**

- 2 -

**SCIENCE AND TECHNOLOGY HAVE BROUGHT UNPRECEDENTED
PROSPERITY, MOBILITY, HEALTH, AND SECURITY TO MILLIONS,
AROUND THE WORLD.**

**TODAY, THE SPIRIT OF INNOVATION IS ALIVE AND WELL
IN AMERICA. [[OF COURSE, TIMES HAVE CHANGED. SOME
SAY THAT IF EDISON HAD INVENTED THE LIGHTBULB TODAY,
WE'D HAVE SCORES OF STUDIES CITING THE DANGERS OF
ELECTRICITY -- AND THE NEWSPAPERS WOULD HEADLINE THE
STORY, "CANDLE INDUSTRY THREATENED."]]**

SCIENCE AND TECHNOLOGY HAVE TOUCHED ALL OF OUR LIVES, FROM THE WAY WE DO OUR JOBS TO THE KIND OF MEDICAL CARE WE RECEIVE. AND ESPECIALLY IN THE LAST FEW WEEKS, ANYONE WHO'S BEEN NEAR A TELEVISION HAS SEEN DRAMATIC EVIDENCE OF HOW TECHNOLOGY IS CHANGING THE FACE OF WAR. MODERN WEAPONS ARE MAKING IT POSSIBLE TO FACE DOWN AGGRESSION WITHOUT THE DEGREE OF WIDESPREAD DESTRUCTION AND LOSS OF CIVILIAN LIFE OF WARS PAST.



THAT'S WHY I'LL BE VISITING THE WORKERS WHO MAKE THE PATRIOT MISSILE, LATER TODAY.

OUR INVESTMENT IN DEFENSE RESEARCH AND DEVELOPMENT OVER THE PAST DECADE IS NOW SAVING THE LIVES OF AMERICANS -- OF OUR ALLIES -- AND EVEN OF OUR ADVERSARIES. I AM CERTAIN THAT THIS STRUGGLE WILL END DECISIVELY. LET US ALL PRAY THAT IT ENDS QUICKLY. \\\

NEXT WEEK, THE ADMINISTRATION WILL RELEASE ITS NATIONAL ENERGY STRATEGY -- WITH NEW PUBLIC AND PRIVATE INITIATIVES TO INCREASE ENERGY EFFICIENCY AND CONSERVATION, PRESERVE OUR ENVIRONMENT, ENCOURAGE ALTERNATIVE SOURCES OF ENERGY, AND REDUCE OUR VULNERABILITY TO FOREIGN OIL SUPPLY DISRUPTIONS.

NOW, SOME WILL SAY THAT REDUCING OUR ENERGY VULNERABILITY IS NOT ENOUGH -- THAT WE SHOULD TAKE MORE DRASTIC MEASURES FOR TOTAL ENERGY INDEPENDENCE.


BUT THEN, THERE'S REALITY. WE ARE A LONG WAY FROM ACHIEVING TOTAL ENERGY INDEPENDENCE. WE MUST AVOID UNWISE AND EXTREME MEASURES, SUCH AS OIL IMPORT FEES AND EXCESSIVE CAFE STANDARDS FOR AUTOMOBILES THAT WOULD SERIOUSLY HURT AMERICAN CONSUMERS, AMERICAN JOBS, AND AMERICAN INDUSTRIES. INSTEAD, WE MUST PURSUE AN ENERGY STRATEGY THAT IS REASONABLE, BALANCED, AND COMPREHENSIVE. THAT WILL KEEP US ON THE COURSE TOWARD STRONG ECONOMIC GROWTH.

SCIENCE AND TECHNOLOGY WILL ALSO BE A CRUCIAL KEY TO OUR ECONOMIC STRENGTH. IF THE PAST IS PROLOGUE, OUR ECONOMIC FUTURE IS GOING TO BE VERY BRIGHT INDEED. OVER A THIRD OF THE ECONOMIC GROWTH WE'VE ENJOYED SINCE THE 1930'S HAS BEEN THE RESULT OF NEW KNOWLEDGE, INCLUDING SCIENCE AND TECHNOLOGY. AND BEYOND ADVANCES IN PROSPERITY AND SECURITY, WORK ON THE FRONTIERS OF KNOWLEDGE IS ONE OF HUMANITY'S GREATEST ADVENTURES.

FOR ALL OF THESE REASONS, THE BUDGET THAT I SENT TO CAPITOL HILL LAST WEEK INCLUDED A 13 PERCENT INCREASE FOR RESEARCH AND DEVELOPMENT. THAT INCREASE IS ONE OF THE LARGEST IN THE BUDGET

-- AND IT'S PROOF OF OUR DETERMINATION TO MAKE THE INVESTMENTS NEEDED TO ENSURE THIS COUNTRY'S CONTINUED LEADERSHIP. WE INTEND TO HELP SCIENTISTS SPEND LESS TIME SEARCHING FOR FUNDING, AND MORE TIME MAKING BREAKTHROUGHS. \\\

ONE OF OUR HIGHEST PRIORITIES IS BASIC RESEARCH -- ESPECIALLY BY THE INDIVIDUAL SCIENTIST OR SMALL TEAM. TO SUPPORT THEIR WORK, OUR BUDGET CALLS FOR A BILLION DOLLAR INCREASE IN BASIC RESEARCH. FUNDING AT THE NATIONAL SCIENCE FOUNDATION WOULD GO UP 18 PERCENT, WHICH WOULD PUT THE NSF BUDGET BACK ON THE TRACK TOWARD THE DOUBLING THAT I'VE LONG SOUGHT -- AND INCREASES IN BASIC RESEARCH AT THE N.I.H., DEPARTMENT OF ENERGY, NASA, AND THE DEPARTMENT OF AGRICULTURE WILL ADD TO THE BASE OF KNOWLEDGE ON WHICH THE FUTURE IS BEING BUILT.



AT THE SAME TIME, THIS BUDGET MAKES A STRONG COMMITMENT TO THE FACILITIES THAT MANY INDIVIDUAL SCIENTISTS WILL NEED TO REACH THE FUTURE FRONTIERS OF THEIR FIELDS. THAT MEANS NUCLEAR ACCELERATORS IN PHYSICS, TELESCOPES IN ASTRONOMY, A STRONG SPACE SCIENCE PROGRAM AT NASA, AND THE HUMAN GENOME PROJECT IN BIOLOGY -- ALL PROJECTS THAT WILL HAVE A PROFOUND IMPACT ON HUMANITY.

OVER THE NEXT YEAR, THE UNITED STATES WILL SPEND OVER A BILLION DOLLARS ON THE U.S. GLOBAL CHANGE PROGRAM. PART OF OUR EFFORTS TAKE THE FORM OF A MISSION TO PLANET EARTH, WHERE SATELLITES WILL MONITOR THE EARTH FROM SPACE. AND OUR MISSION FROM PLANET EARTH WILL EXTEND HUMAN CURIOSITY TO FRONTIERS BEYOND OUR OWN PLANET, TO THE MOON, TO THE PLANETS, AND BEYOND.

BUT ALONG WITH RECORD FEDERAL INVESTMENT IN R & D, TALLING \$76 BILLION, WE ARE COMMITTED TO WORKING WITH AMERICAN INDUSTRY TO MAKE IT EASIER FOR COMPANIES TO CAPITALIZE ON THE DISCOVERIES OF BASIC SCIENCE -- AND TO DEVELOP NEW PRODUCTS AND PROCESSES. THAT'S WHY I AM AGAIN CALLING ON THE CONGRESS TO MAKE THE RESEARCH AND EXPERIMENTATION TAX CREDIT PERMANENT -- TO MAKE A LONG-TERM COMMITMENT TO OUR TECHNOLOGICAL FUTURE.

WE FACE A CRUCIAL CHALLENGE IN DEVELOPING THE GENERIC TECHNOLOGIES IMPORTANT TO BOTH THE PUBLIC AND PRIVATE SECTORS. THAT'S WHY THE BUDGET SUPPORTS WORK IN HIGH PERFORMANCE COMPUTING AND COMMUNICATIONS, IN ENERGY RESEARCH AND DEVELOPMENT, IN AERONAUTICS, AND IN BIOTECHNOLOGY -- THE BASIS FOR SOME OF THE MOST PROMISING INDUSTRIES OF THE 21ST CENTURY.

TECHNOLOGY MAY BE THE KEY TO THE FUTURE, BUT PEOPLE ARE THE KEY TO TECHNOLOGY.

THE NATIONAL EDUCATION GOALS WE ESTABLISHED WITH THE NATION'S GOVERNORS EXPLICITLY RECOGNIZE THIS LINK. ONE OF OUR MOST AMBITIOUS GOALS IS FOR AMERICAN STUDENTS TO BE FIRST IN THE WORLD IN SCIENCE AND MATH ACHIEVEMENT BY THE YEAR 2000.

OUR BUDGET INCLUDES SUBSTANTIAL FUNDING INCREASES FOR MATH AND SCIENCE EDUCATION. BUT THOSE MATH AND SCIENCE GOALS WILL NEVER BE ACHIEVED IF THEY'RE SEEN AS GOALS FOR GOVERNMENT ALONE.

ALL SECTORS OF SOCIETY MUST RECOGNIZE THE IMPORTANCE OF SCIENTIFIC LITERACY AND STRIVE TO ACHIEVE IT.

AND THAT'S WHERE THE AAAS COMES IN. YOUR PROJECT 2061 IS WORKING WHERE ALL LASTING CHANGE MUST OCCUR -- AT THE LOCAL LEVEL -- TO TRANSFORM THE TEACHING OF MATHEMATICS AND SCIENCE.

LAST FALL, WE HAD 200 OF THE BEST MATHEMATICS AND SCIENCE TEACHERS IN THE COUNTRY TO THE WHITE HOUSE -- AND MORE THAN A FEW OF THOSE TEACHERS POINTED OUT THAT KIDS ARE NATURAL-BORN SCIENTISTS.

THEY DELIGHT IN THE SHEER PLEASURE OF LEARNING NEW THINGS, MAKING SOMETHING WORK, UNDERSTANDING THE WORLD.

THIS DELIGHT IS SOMETHING MOST SCIENTISTS NEVER LOSE. THE NOBEL-PRIZE-WINNING GENETICIST BARBARA McCLINTOCK ONCE SAID OF HER WORK, "I DID IT BECAUSE IT WAS FUN. I COULDN'T WAIT TO GET UP IN THE MORNING. I NEVER THOUGHT OF IT AS SCIENCE."

THE SHEER ADVENTURE OF SCIENCE IS ONE OF THE MAIN REASONS FOR HOLDING THIS MEETING -- AND FOR THE CONTINUED VITALITY OF THE "TRIPLE-A, S."

SHARING SCIENCE'S SENSE OF ADVENTURE THROUGH EDUCATION
AND OUTREACH HAS NEVER BEEN MORE IMPORTANT THAN NOW.

YOUR WORK IS VITALLY IMPORTANT. OF ALL HUMANITY'S
CONCERNS, THE POWER OF KNOWING IS THE GREATEST
PURSUIT -- THE SUREST PROMISE OF A BRIGHTER FUTURE --
THE GREATEST COVENANT WE KEEP WITH FUTURE GENERATIONS.

SO LET US PURSUE THE ADVENTURE OF SCIENCE AS A
SACRED TRUST.

AND LET US KEEP THE FIRE OF THE AMERICAN MIND BURNING
BRIGHTLY, FOR THE SAKE OF THE FUTURE OUR CHILDREN
DESERVE.

THANK YOU ALL. MAY GOD BLESS THE UNITED STATES OF
AMERICA.

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THE WHITE HOUSE
WASHINGTON

P. 2 delete

"oil import fees and"

(Lange/Cawley)
February 14, 1991
3:30 P.M.
[AAAS2.DOC]

PRESIDENTIAL REMARKS: AMERICAN ASSOCIATION FOR
THE ADVANCEMENT OF SCIENCE
ROOM 450
10:00
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Today, the spirit of innovation is alive and well in
America. [[Of course, times have changed. Some say that if
Edison had invented the lightbulb today, we'd have scores of
studies citing the dangers of electricity -- and the newspapers
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And especially in the last few weeks, anyone who's been near a
television has seen dramatic evidence of how technology is
changing the face of war. Modern weapons are making it possible
to face down aggression without the degree of widespread
destruction and loss of civilian life of wars past. That's why
I'll be visiting the workers who make the Patriot missile, later
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Science and technology will be a crucial key to our economic strength. If the past is prologue, our economic future is going to be very bright indeed. Over a third of the economic growth we've enjoyed since the 1930's has been the result of new knowledge, including science and technology. And beyond advances in prosperity and security, work on the frontiers of knowledge is one of humanity's greatest adventures.

(Governor
Porter, #2
Card, #2)

For all of these reasons, the budget that I sent to Capitol Hill last week included a 13 percent increase for research and development. That increase is one of the largest in the budget -- and it's proof of our determination to make the investments needed to ensure this country's continued leadership. We intend to help scientists spend less time searching for funding, and more time making breakthroughs. \\\

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So let us pursue the adventure of science as a sacred trust. And let us keep the fire of the American mind burning brightly, for the sake of the future our children deserve.

Thank you all. May God bless the United States of America.

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WHITE HOUSE STAFFING MEMORANDUM

91 FEB 13 P4:51

DATE: 2/13/91 ACTION/CONCURRENCE/COMMENT DUE BY: ---

SUBJECT: PRESIDENTIAL REMARKS: AMERICAN ASSOC. FOR THE ADVANCEMENT OF SCIENCE

	ACTION FYI			ACTION FYI	
VICE PRESIDENT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	MCCLURE	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SUNUNU	<input type="checkbox"/>	<input type="checkbox"/>	NEWMAN	<input type="checkbox"/>	<input type="checkbox"/>
SCOWCROFT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	PORTER	<input type="checkbox"/>	<input checked="" type="checkbox"/>
DARMAN	<input type="checkbox"/>	<input checked="" type="checkbox"/>	ROGICH	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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CARD	<input type="checkbox"/>	<input checked="" type="checkbox"/>	BROMLEY	<input type="checkbox"/>	<input checked="" type="checkbox"/>
DEMAREST	<input type="checkbox"/>	<input checked="" type="checkbox"/>	ALBRECHT	<input type="checkbox"/>	<input checked="" type="checkbox"/>
FITZWATER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	ROGERS	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GRAY	<input type="checkbox"/>	<input checked="" type="checkbox"/>	WINSTON	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
HOLIDAY	<input type="checkbox"/>	<input checked="" type="checkbox"/>	BOSKIN	<input type="checkbox"/>	<input checked="" type="checkbox"/>

REMARKS:

The attached has been forwarded to the President.

RESPONSE:

PHILLIP D. BRADY
 Assistant to the President
 and Staff Secretary
 Ext. 2702

THE WHITE HOUSE
WASHINGTON

91 FEB 13 PM 3:10

FEBRUARY 13, 1991

INFORMATION

MEMORANDUM FOR THE PRESIDENT

THROUGH:

CHRISS WINSTON *cw*

FROM:

MARK LANGE *ML*

SUBJECT:

AMERICAN ASSOC. FOR THE ADVANCEMENT OF SCIENCE

Attached are draft remarks (cards only) for Friday's meeting with members of the American Association for the Advancement of Science. The event takes place in room 450, OEOB, at 10:00 a.m.

The remarks are 8 - 9 minutes in length, and emphasize important federal investments in science and technology, commercial R & D, and math and science education.

(Lange/Cawley)
February 13, 1991
3:00 P.M.
[AAAS2.DOC]

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THE ADVANCEMENT OF SCIENCE
ROOM 450
10:00
FRIDAY, FEBRUARY 15, 1991

[[Thank you, Dr. Atkinson. Dr. Langenberg, Dr. Lederman
["LETTERMAN"]; Dr. Rowland; Dr. Bromley; distinguished friends of
science.]] It's an honor to be here. Since its founding nearly
a century and a half ago, your association has watched over the
most far-reaching and breathtaking transformation that human
society has ever known. Science and technology have brought
unprecedented prosperity, mobility, health, and security to
millions, around the world.

Today, the spirit of innovation is alive and well in
America. [[Of course, times have changed. Some say that if
Edison had invented the lightbulb today, we'd have scores of
studies citing the dangers of electricity -- and the newspapers
would headline the story, "Candle Industry Threatened."]]

Anyone who's been near a television in recent weeks has seen
dramatic evidence of how technology is changing the face of war.
Modern weapons are making it possible to face down aggression
without the degree of widespread destruction and loss of civilian
life of wars past. That's why I'll be visiting the workers who
make the Patriot missile, later today.

Our investment in defense research and development over the
past decade is now saving the lives of Americans -- of our allies

Handwritten notes:
see 3:30
J. Lange

-- and even of our adversaries. I am certain that this struggle will end decisively. Let us all pray that it ends quickly. \\\

Here at home, science and technology are also a crucial key to our economic strength. If the past is prologue, our economic future is going to be very bright indeed. ^{Economists estimate} ~~over half~~ ^{that adv. in tech account for up to} of the economic growth we've enjoyed since the 1930's has been the ^{one...} result of new knowledge, including science and technology. And beyond advances in prosperity and security, work on the frontiers of knowledge is one of humanity's greatest adventures.

For all of these reasons, the budget that I sent to Capitol Hill last week included a 13 percent increase for research and development. That increase is one of the largest in the budget -- and it's proof of our determination to make the investments needed to ensure this country's continued leadership. We intend to help scientists spend less time searching for funding, and more time making breakthroughs. \\\

One of our highest priorities is basic research -- especially by the individual scientist or smaller team. To support their work, our budget calls for a billion dollar increase in basic research. Funding at the National Science Foundation would go up 18 percent, which would put the NSF budget back on the track toward the doubling that I've long sought -- and increases in basic research at the N.I.H., Department of Energy, NASA, and the Department of Agriculture will add to the base of knowledge on which the future is being built.

At the same time, this budget makes a strong commitment to the facilities that many individual scientists will need to reach the future frontiers of their fields. That means nuclear accelerators in physics, telescopes in astronomy, a strong space science program at NASA, and the human genome project in biology -- all projects that will have a profound impact on humanity.

Over the next year, the United States will spend over a billion dollars on the U.S. Global Change Program. Part of our efforts take the form of a Mission to Planet Earth, where satellites will monitor the Earth from space. And our Mission from Planet Earth will extend human curiosity to frontiers beyond our own planet, to the Moon, to the planets, and beyond.

But along with record investment in federal R & D, totalling \$76 billion, we are committed to working with American industry to make it easier for companies to capitalize on the discoveries of basic science -- and to develop new products and processes. That's why I am again calling on the Congress to make the research and experimentation tax credit permanent -- to make a long-term commitment to our technological future.

We face a crucial challenge in developing the generic technologies important to both the public and private sectors. That's why the budget supports work in high performance computing and communications, in energy research and development, in aeronautics, and in biotechnology -- the basis for some of the most promising industries of the 21st century.

Technology may be the key to the future, but people are the key to technology. The National Education Goals we established with the nation's governors explicitly recognize this link. One of our most ambitious goals is for American students to be first in the world in science and math achievement by the year 2000.

Our budget includes substantial funding increases for math and science education. But those math and science goals will never be achieved if they're seen as goals for government alone. All sectors of society must recognize the importance of scientific literacy and strive to achieve it.

And that's where the AAAS comes in. Your Project 2061 is working where all lasting change must occur -- at the local level -- to transform the teaching of mathematics and science.

Last fall, we had 200 of the best mathematics and science teachers in the country to the White House -- and more than a few of those teachers pointed out that kids are natural-born scientists. They delight in the sheer pleasure of learning new things, making something work, understanding the world.

This delight is something most scientists never lose. The Nobel-prize-winning geneticist Barbara McClintock once said of her work, "I did it because it was fun. I couldn't wait to get up in the morning. I never thought of it as science."

The sheer adventure of science is one of the main reasons for holding this meeting -- and for the continued vitality of the "Triple-A, S." Sharing science's sense of adventure through education and outreach has never been more important than now.

Your work is vitally important. Of all humanity's concerns, the power of knowing is the greatest pursuit -- the surest promise of a brighter future -- the greatest covenant we keep with future generations.

So let us pursue the adventure of science as a sacred trust. And let us keep the fire of the American mind burning brightly, for the sake of the future our children deserve.

Thank you all. May God bless the United States of America.

#

EXECUTIVE OFFICE OF THE PRESIDENT
OFFICE OF SCIENCE AND TECHNOLOGY POLICY
WASHINGTON, D.C. 20506

February 14, 1991

MEMORANDUM FOR MARK LANGE

FROM: STEVE OLSON

SUBJECT: AAAS SPEECH

I understand that we are now working from the shortened version of tomorrow's speech. In that case, there are two minor additions that our office would very much like to make. They are shown on the attached pages.

✓
per RBP) X
X
The first is a transition sentence to briefly mention the civilian benefits of science and technology. The second is two sentences to note the work of an interagency committee under Secretary Watkins (who has been invited to the event) that has done a tremendous amount of work on science and math education. In addition, there is a mention of the Federal Coordinating Council because this Cabinet-level interagency group has a large number of activities underway that have a major influence on federal science and technology.

Please let me know if there are any problems with these additions.

cc: Allan Bromley
Ken Yale

(Lange/Cawley)
February 13, 1991
3:00 P.M.
[AAAS2.DOC]

PRESIDENTIAL REMARKS: AMERICAN ASSOCIATION FOR
THE ADVANCEMENT OF SCIENCE
ROOM 450
10:00
FRIDAY, FEBRUARY 15, 1991

→ [[Thank you, Dr. Atkinson. Dr. Langenberg, Dr. Lederman
["^{DD}LEFFERMAN"]; Dr. Rowland; Dr. Bromley; distinguished friends of
science.]] It's an honor to be here. Since its founding nearly
a century and a half ago, your association has watched over the
most far-reaching and breathtaking transformation that human
society has ever known. Science and technology have brought
unprecedented prosperity, mobility, health, and security to
millions, around the world.

Today, the spirit of innovation is alive and well in
America. [[Of course, times have changed. Some say that if
Edison had invented the lightbulb today, we'd have scores of
studies citing the dangers of electricity -- and the newspapers
would headline the story, "Candle Industry Threatened."]]

✓ Anyone who's been near a television ~~in recent weeks~~ has seen
dramatic evidence of how technology is changing the face of war.
Modern weapons are making it possible to face down aggression
without the degree of widespread destruction and loss of civilian
life of wars past. That's why I'll be visiting the workers who
make the Patriot missile, later today.

Our investment in defense research and development over the
past decade is now saving the lives of Americans -- of our allies

Science and technology have been changing many aspects of our
lives, from the way we do our jobs to the kinds of medical care
we receive. And especially in the last few weeks,

-- and even of our adversaries. I am certain that this struggle will end decisively. Let us all pray that it ends quickly. \\\

Here at home, science and technology are also a crucial key to our economic strength. If the past is prologue, our economic future is going to be very bright indeed. Over ^{a third} ~~half~~ of the economic growth we've enjoyed since the 1930's has been the result of new knowledge, including science and technology. And beyond advances in prosperity and security, work on the frontiers of knowledge is one of humanity's greatest adventures.

For all of these reasons, the budget that I sent to Capitol Hill last week included a 13 percent increase for research and development. That increase is one of the largest in the budget -- and it's proof of our determination to make the investments needed to ensure this country's continued leadership. We intend to help scientists spend less time searching for funding, and more time making breakthroughs. \\\

One of our highest priorities is basic research -- especially by the individual scientist or smaller ^{er} team. To support their work, our budget calls for a billion dollar increase in basic research. Funding at the National Science Foundation would go up 18 percent, which would put the NSF budget back on the track toward the doubling that I've long sought -- and increases in basic research at the N.I.H., Department of Energy, NASA, and the Department of Agriculture will add to the base of knowledge on which the future is being built.

change conveyed to Carolyn

Bosch says "half" okay

1/3 safe (2's worked)

correct term.

At the same time, this budget makes a strong commitment to the facilities that many individual scientists will need to reach the future frontiers of their fields. That means nuclear accelerators in physics, telescopes in astronomy, a strong space science program at NASA, and the human genome project in biology -- all projects that will have a profound impact on humanity.

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Our budget includes substantial funding increases for math and science education. ⁽⁴⁾ But those math and science goals will never be achieved if they're seen as goals for government alone. All sectors of society must recognize the importance of scientific literacy and strive to achieve it.

And that's where the AAAS comes in. Your Project 2061 is working where all lasting change must occur -- at the local level -- to transform the teaching of mathematics and science.

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This delight is something most scientists never lose. The Nobel-prize-winning geneticist Barbara McClintock once said of her work, "I did it because it was fun. I couldn't wait to get up in the morning. I never thought of it as science."

The sheer adventure of science is one of the main reasons for holding ^{your annual} ~~this~~ meeting -- and for the continued vitality of the "Triple-A, S." Sharing science's sense of adventure through education and outreach has never been more important than now.

And last week, an interagency group under the leadership of Secretary Watkins released a program that coordinates and integrates federal activities in this area, so that federal spending goes farther. Similar groups under the Federal Coordinating Council for Science, Engineering, and Technology are doing the same thing throughout the federal R&D. in many other areas of

for
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Your work is vitally important. Of all humanity's concerns, the power of knowing is the greatest pursuit -- the surest promise of a brighter future -- the greatest covenant we keep with future generations.

So let us pursue the adventure of science as a sacred trust. And let us keep the fire of the American mind burning brightly, for the sake of the future our children deserve.

Thank you all. May God bless the United States of America.

#

THE WHITE HOUSE
WASHINGTON

3

Date: 2/14/91

TO: DAVE DEMAREST

FROM: OLIN L. WETHINGTON

For tomorrow's AAAS speech.

But we won't sell our kids the troops manning Patriot lay, they wiped out the idea that tough for the 21st Century."

ns modernizing our financial our able Secretary of the our banking reform proposals. protect every insured depositor in press the reality of the modern y a U.S. financial system that ners, and strengthens our ck again in a couple of years to why half-way solutions won't do and we have to do it now.

But by any historical standard, to be mild and brief. And today is: While our economy may be not be beset by doubt.

backed by the facts. Inflation erest rates are beginning to it declined for the third year kept down, reducing the need for

... excess inventory. Because our major trading partners are seeing relatively strong growth, and the price of U.S. exports on world markets remains low, the pace of U.S. exports will continue to set record highs. In spite of many pre-war predictions that a Gulf War would send oil up to \$80 a barrel, oil prices have fallen substantially since their peaks in October, especially since the start of Operation Desert Storm. I believe that by standing up to aggression in the Gulf, we are guaranteeing the future security and stability of that area, that is so vital to global economic prosperity.

Next week
~~Later this month~~, the Administration will release its National Energy Strategy. The strategy will propose federal, state and private sector initiatives to increase energy efficiency and conservation. It recognizes the need for creating a clean, safe environment. And it also recognizes that we must find more domestic oil and gas, and use more alternative sources of energy.

Our strategy is designed to reduce our vulnerability to foreign oil supply disruptions. Some will argue that reducing our energy vulnerability is not enough, and that we should embark upon more drastic measures designed to achieve total energy independence. The reality is that we are a long way from total energy *(insert)* independence. We must avoid unwise and extreme measures that would seriously hurt American consumers, American jobs, and American industries.

Yes, we must begin reducing our energy vulnerability now. Our new strategy will do that because it is prudent, balanced, and comprehensive.

And finally, don't forget another underlying strength of our economy: The flexibility of America's free market system. To preserve this flexibility, we must keep our markets open and hold government restrictions to a minimum. This is not easy. I will continue to oppose protectionism, and continue to fight for a level playing field, so that international trade is free -- and fair.

(insert), such as oil import fees and high CAFE standards for automobiles,

WHITE HOUSE STAFFING MEMORANDUM

DATE: 2/11/91

ACTION/CONCURRENCE/COMMENT DUE BY: Tuesday, 2/12/91 NOON

SUBJECT: PRESIDENTIAL REMARKS: AMERICAN ASSOC. FOR THE ADVANCEMENT OF SCIENCE

	ACTION	FYI		ACTION	FYI
VICE PRESIDENT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	MCCLURE	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SUNUNU	<input type="checkbox"/>	<input type="checkbox"/>	NEWMAN	<input type="checkbox"/>	<input type="checkbox"/>
SCOWCROFT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PORTER	<input checked="" type="checkbox"/>	<input type="checkbox"/>
DARMAN	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ROGICH	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BRADY	<input type="checkbox"/>	<input checked="" type="checkbox"/>	UNTERMAYER	<input type="checkbox"/>	<input type="checkbox"/>
CARD	<input type="checkbox"/>	<input checked="" type="checkbox"/>	BROMLEY	<input checked="" type="checkbox"/>	<input type="checkbox"/>
DEMAREST	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ALBRECHT	<input checked="" type="checkbox"/>	<input type="checkbox"/>
FITZWATER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	ROGERS	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GRAY	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WINSTON	<input type="checkbox"/>	<input checked="" type="checkbox"/>
HOLIDAY	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

REMARKS:

Please forward your comments directly to Chriss Winston, Rm. 122, x2930, no later than NOON, Tuesday, February 12, with a copy to this office. Thank you.

RESPONSE:

PHILLIP D. BRADY
 Assistant to the President
 and Staff Secretary
 Ext. 2702

91 FEB 11 PM 1:40

(Lange/Cawley)
February 11, 1991
1:15 P.M.
[AAAS.DOC]

PRESIDENTIAL REMARKS: AMERICAN ASSOCIATION FOR
THE ADVANCEMENT OF SCIENCE
SHERATON WASHINGTON
10:00
FRIDAY, FEBRUARY 15, 1991

[[Thank you, Dr. Atkinson. Dr. Langenberg, ~~Dr. Lederman,~~
Dr. Bromley; distinguished friends of science.]] It's an honor
to be here. Since its founding nearly a century and a half ago,
~~the AAAS ["Triple-A, S"] has been a seedbed for some of the~~
~~best scientific minds in America.~~

Your association has ^{watched over} ~~helped guide~~ the most far-reaching and
breathtaking transformation that human society has ever known.
~~Over the course of this century,~~ science and technology have
brought unprecedented prosperity, mobility, health, and security
to millions ~~here, and~~ around the world.

gt. Today, the spirit of innovation is alive and well in
America. [[Of course, times have changed. Some say that if
Edison had invented the lightbulb today, we'd have scores of
studies citing the dangers of electricity -- and the newspapers
would headline the story, "Candle Industry Threatened."]]

~~But because this country has long embodied the virtues of~~
~~free inquiry and invention, we've been given great power, and~~
~~greater responsibility.~~ Science has greatly broadened human
potential -- the potential to do harm as well as good. Yet the
words of Thomas Jefferson to General Kosciusko, the great Polish-
American freedom fighter, still ring true: "The main objects of
all science," he wrote, "are the freedom and happiness of man."

~~Today, we are witness to wonders of science that outweigh~~
~~some of its greatest terrors.~~ Anyone who's been near a television in recent weeks has seen dramatic evidence of how technology is changing the face of war. Modern weapons are making it possible to face down aggression without the degree of widespread destruction and loss of civilian life of wars past.

Our investment in defense research and development over the past decade is now saving the lives of Americans -- of our allies -- and even of our adversaries. I am certain that this struggle will end decisively. Let us all pray that it ends quickly. \\\

Here at home, science and technology are also a crucial key to our economic strength. ~~The Presidency brings no powers of prophecy, but~~ if the past is prologue, our economic future is going to be very bright indeed.

Over half of the economic growth we've enjoyed since the 1930's has been the result of new knowledge, including the results of science and technology. ~~By any measure, the economic returns on science and technology are dramatic.~~

~~But beyond advances in prosperity and security, we also gain an important intellectual and spiritual dimension.~~ Work on the frontiers of ~~human~~ knowledge ^{is} ~~represents~~ one of ^{humanity's} ~~the~~ greatest adventures, ~~of mankind.~~ ^{of mankind} In an important sense, it is what makes ~~our species unique in the rich fabric of life.~~

For all of these reasons, the budget that I sent to Capitol Hill last week included a 13 percent increase for research and development. That increase is one of the largest in the budget

-- and it's proof of our determination to make the investments needed to ensure this country's continued leadership. We intend to help scientists spend less time searching for funding, and more time making breakthroughs. \\\

One of our highest priorities is basic research -- especially by the individual scientist or smaller team. To support their work, our budget calls for a billion dollar increase in basic research. Funding at the National Science Foundation would go up 18 percent, which would put the NSF budget back on the track toward the doubling that I've long sought. ~~And funding to support work on the basic sciences -- mostly by individual investigators -- would go up by 16 percent.~~

(for R.B.R.)
 and ^{MM, J} increases in basic research at the Department of Energy, ^{NIH} NIH, NASA, and the Department of Agriculture will add to the base of knowledge on which the future is being built. ~~again with an emphasis on individual investigators and smaller groups.~~

At the same time, this budget makes a strong commitment to the facilities that many ^{individual} ~~of these same~~ scientists will need to reach the future frontiers of their fields. ~~It nearly doubles funding for the Superconducting Super Collider.~~ And we're ^{that means} ~~supporting a balanced program of other facilities and research~~ ^{such} nuclear accelerators in physics, telescopes in astronomy, a strong space science program at NASA, and the human genome project in biology -- all projects that will have a profound impact on humanity.

~~It is never possible to tell how or when scientific discoveries will prove useful, but some basic research is targeted at clear and immediate needs,~~ ^{And of our} ~~over the next year,~~ ^{To meet} ~~for example,~~ the United States will spend over a billion dollars on the U.S. Global Change Program. Part of our efforts take the form of a Mission to Planet Earth, where satellites will monitor the Earth from space and gauge its changes.

~~And even as we look inward, we must continue to look outward, toward the stars, as man has done throughout the ages.~~

Our Mission from Planet Earth will extend ~~this~~ human curiosity to frontiers beyond our own planet, to the Moon, to the planets, and beyond. As with much of science, we cannot be sure of what we will find there. But we can be sure that the quest will make our lives richer, both materially and spiritually.

~~This budget also provides for investments in more down-to-earth technologies.~~ ^{Along with record Fed. investment in R&D, totalling \$76 bil.} We are committed to working with American industry to make it easier for companies to capitalize on the discoveries of basic science -- and to develop new products and processes. That's why I am again calling on the Congress to make the research and experimentation tax credit permanent. ^{-- to make a} ~~It is~~ ~~time for Congress to make this~~ long-term commitment to our technological future.

We face a crucial challenge in developing the generic technologies important to both the public and private sectors. That's why the budget supports work in high performance computing and communications, in energy research and development, in

aeronautics, and in biotechnology -- ^{the basis for} some of the most promising industries of the 21st Century.

Technology may be the key to the future, but people are the key to technology. The National Education Goals we established with the nation's governors explicitly recognize this link. One of our most ambitious goals is for American students to be first in the world in science and math achievement by the year 2000.

This will not be an easy goal to reach, but we take it very seriously. Last week, an interagency group under the leadership of Secretary Watkins released a program calling for substantial increases in federal funding for mathematics and science education. That group also coordinates and integrates federal activities, so that federal dollars go farther.

*per (R.P.P.)
(don't need this level of detail)*

~~Still~~ ^{But} those math and science goals will never be achieved if they're seen as goals for government alone. All sectors of society must recognize the importance of scientific literacy and strive to achieve it.

Our budget includes substantial funding increases, especially at the precolleg level.

And that's where the AAAS comes in. Your Project 2061 is working where all lasting change must occur -- at the local level -- to transform the ^{ways in which} ~~ways in which~~ mathematics and science are taught. We'll be looking closely ^{at} ~~at~~ this experiment, ^{to guide} ~~to guide~~ ~~our own efforts.~~

Last fall, we had 200 of the best mathematics and science teachers in the country to the White House -- and more than a few of those teachers pointed out that ~~teaching science to kids is not really hard, because~~ kids are natural-born scientists. They

delight in the sheer pleasure of learning new things, making something work, understanding the world ~~around them.~~

This delight is something most scientists never lose. The Nobel-prize-winning geneticist Barbara McClintock once said of her work, "I did it because it was fun," ~~she said.~~ "I couldn't wait to get up in the morning. I never thought of it as science."

The sheer adventure of science is one of the main reasons for holding this meeting -- and for the ^{continued vitality} ~~existence~~ of the "Triple-A, S." ~~There are many ways to share~~ ^{science's} that sense of adventure through education and ~~public~~ outreach -- ~~and it has never been~~ more important than now.

I firmly believe that the world's well-being depends more than ever on science and technology. It is our nature. We are, as we have always been, the only creature on this earth whose one insatiable hunger, and greatest desire, is for knowledge.

Your work is vitally important. Of all humanity's concerns, the power of knowing is the greatest pursuit -- the surest promise of a brighter future -- the greatest covenant we keep with future generations.

So let us pursue the adventure of science as a sacred trust. And let us keep the fire of the American mind burning brightly, for the sake of the future our children deserve.

Thank you all. May God bless the United States of America.

CW,
R² asked for (this) a copy of the
shortened version. It retains all of the
substance, but drops a lot of the rhetoric.

(Lange/Cawley)
February 13, 1991
11:15 A.M.
[AAAS.DOC]

MF

PRESIDENTIAL REMARKS: AMERICAN ASSOCIATION FOR
THE ADVANCEMENT OF SCIENCE
SHERATON WASHINGTON
10:00
FRIDAY, FEBRUARY 15, 1991

[[Thank you, Dr. Atkinson. Dr. Langenberg, Dr. Rowland; Dr. Bromley; distinguished friends of science.]] It's an honor to be here. Since its founding nearly a century and a half ago, your association has watched over the most far-reaching and breathtaking transformation that human society has ever known. Science and technology have brought unprecedented prosperity, mobility, health, and security to millions, around the world.

Today, the spirit of innovation is alive and well in America. [[Of course, times have changed. Some say that if Edison had invented the lightbulb today, we'd have scores of studies citing the dangers of electricity -- and the newspapers would headline the story, "Candle Industry Threatened."]]

Anyone who's been near a television in recent weeks has seen dramatic evidence of how technology is changing the face of war. Modern weapons are making it possible to face down aggression without the degree of widespread destruction and loss of civilian life of wars past. That's why I'll be visiting the workers who make the Patriot missile, later today.

Our investment in defense research and development over the past decade is now saving the lives of Americans -- of our allies -- and even of our adversaries. I am certain that this struggle will end decisively. Let us all pray that it ends quickly. \\

Here at home, science and technology are also a crucial key to our economic strength. If the past is prologue, our economic future is going to be very bright indeed. Over half of the economic growth we've enjoyed since the 1930's has been the result of new knowledge, including science and technology. And beyond advances in prosperity and security, work on the frontiers of knowledge is one of humanity's greatest adventures.

For all of these reasons, the budget that I sent to Capitol Hill last week included a 13 percent increase for research and development. That increase is one of the largest in the budget -- and it's proof of our determination to make the investments needed to ensure this country's continued leadership. We intend to help scientists spend less time searching for funding, and more time making breakthroughs. \\\

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At the same time, this budget makes a strong commitment to the facilities that many individual scientists will need to reach the future frontiers of their fields. That means nuclear

accelerators in physics, telescopes in astronomy, a strong space science program at NASA, and the human genome project in biology -- all projects that will have a profound impact on humanity.

Over the next year, the United States will spend over a billion dollars on the U.S. Global Change Program. Part of our efforts take the form of a Mission to Planet Earth, where satellites will monitor the Earth from space. And our Mission from Planet Earth will extend human curiosity to frontiers beyond our own planet, to the Moon, to the planets, and beyond.

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promise of a brighter future -- the greatest covenant we keep with future generations.

So let us pursue the adventure of science as a sacred trust. And let us keep the fire of the American mind burning brightly, for the sake of the future our children deserve.

Thank you all. May God bless the United States of America.

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THE WHITE HOUSE
WASHINGTON

FEBRUARY 13, 1991

INFORMATION

MEMORANDUM FOR THE PRESIDENT

THROUGH: CHRISS WINSTON *CW*
FROM: MARK LANGE *ML*
SUBJECT: AMERICAN ASSOC. FOR THE ADVANCEMENT OF SCIENCE

Attached are draft remarks (cards only) for Friday's meeting with members of the American Association for the Advancement of Science. The event takes place in room 450, OEOB, at 10:00 a.m.

The remarks are 8 - 9 minutes in length, and emphasize important federal investments in science and technology, commercial R & D, and math and science education.

(Lange/Cawley)
February 13, 1991
3:00 P.M.
[AAAS2.DOC]

PRESIDENTIAL REMARKS: AMERICAN ASSOCIATION FOR
THE ADVANCEMENT OF SCIENCE
ROOM 450
10:00
FRIDAY, FEBRUARY 15, 1991

[[Thank you, Dr. Atkinson. Dr. Langenberg, Dr. Lederman
["LETTERMAN"]; Dr. Rowland; Dr. Bromley; distinguished friends of
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a century and a half ago, your association has watched over the
most far-reaching and breathtaking transformation that human
society has ever known. Science and technology have brought
unprecedented prosperity, mobility, health, and security to
millions, around the world.

Today, the spirit of innovation is alive and well in
America. [[Of course, times have changed. Some say that if
Edison had invented the lightbulb today, we'd have scores of
studies citing the dangers of electricity -- and the newspapers
would headline the story, "Candle Industry Threatened."]]

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dramatic evidence of how technology is changing the face of war.
Modern weapons are making it possible to face down aggression
without the degree of widespread destruction and loss of civilian
life of wars past. That's why I'll be visiting the workers who
make the Patriot missile, later today.

Our investment in defense research and development over the
past decade is now saving the lives of Americans -- of our allies

-- and even of our adversaries. I am certain that this struggle will end decisively. Let us all pray that it ends quickly. \\\

Here at home, science and technology are also a crucial key to our economic strength. If the past is prologue, our economic future is going to be very bright indeed. Over half of the economic growth we've enjoyed since the 1930's has been the result of new knowledge, including science and technology. And beyond advances in prosperity and security, work on the frontiers of knowledge is one of humanity's greatest adventures.

For all of these reasons, the budget that I sent to Capitol Hill last week included a 13 percent increase for research and development. That increase is one of the largest in the budget -- and it's proof of our determination to make the investments needed to ensure this country's continued leadership. We intend to help scientists spend less time searching for funding, and more time making breakthroughs. \\\

One of our highest priorities is basic research -- especially by the individual scientist or smaller team. To support their work, our budget calls for a billion dollar increase in basic research. Funding at the National Science Foundation would go up 18 percent, which would put the NSF budget back on the track toward the doubling that I've long sought -- and increases in basic research at the N.I.H., Department of Energy, NASA, and the Department of Agriculture will add to the base of knowledge on which the future is being built.

At the same time, this budget makes a strong commitment to the facilities that many individual scientists will need to reach the future frontiers of their fields. That means nuclear accelerators in physics, telescopes in astronomy, a strong space science program at NASA, and the human genome project in biology -- all projects that will have a profound impact on humanity.

Over the next year, the United States will spend over a billion dollars on the U.S. Global Change Program. Part of our efforts take the form of a Mission to Planet Earth, where satellites will monitor the Earth from space. And our Mission from Planet Earth will extend human curiosity to frontiers beyond our own planet, to the Moon, to the planets, and beyond.

But along with record investment in federal R & D, totalling \$76 billion, we are committed to working with American industry to make it easier for companies to capitalize on the discoveries of basic science -- and to develop new products and processes. That's why I am again calling on the Congress to make the research and experimentation tax credit permanent -- to make a long-term commitment to our technological future.

We face a crucial challenge in developing the generic technologies important to both the public and private sectors. That's why the budget supports work in high performance computing and communications, in energy research and development, in aeronautics, and in biotechnology -- the basis for some of the most promising industries of the 21st century.

Technology may be the key to the future, but people are the key to technology. The National Education Goals we established with the nation's governors explicitly recognize this link. One of our most ambitious goals is for American students to be first in the world in science and math achievement by the year 2000.

Our budget includes substantial funding increases for math and science education. But those math and science goals will never be achieved if they're seen as goals for government alone. All sectors of society must recognize the importance of scientific literacy and strive to achieve it.

And that's where the AAAS comes in. Your Project 2061 is working where all lasting change must occur -- at the local level -- to transform the teaching of mathematics and science.

Last fall, we had 200 of the best mathematics and science teachers in the country to the White House -- and more than a few of those teachers pointed out that kids are natural-born scientists. They delight in the sheer pleasure of learning new things, making something work, understanding the world.

This delight is something most scientists never lose. The Nobel-prize-winning geneticist Barbara McClintock once said of her work, "I did it because it was fun. I couldn't wait to get up in the morning. I never thought of it as science."

The sheer adventure of science is one of the main reasons for holding this meeting -- and for the continued vitality of the "Triple-A, S." Sharing science's sense of adventure through education and outreach has never been more important than now.

Your work is vitally important. Of all humanity's concerns, the power of knowing is the greatest pursuit -- the surest promise of a brighter future -- the greatest covenant we keep with future generations.

So let us pursue the adventure of science as a sacred trust. And let us keep the fire of the American mind burning brightly, for the sake of the future our children deserve.

Thank you all. May God bless the United States of America.

#

91 FEB 12 9:37
WHITE HOUSE STAFFING MEMORANDUM

DATE: 2/11/91 ACTION/CONCURRENCE/COMMENT DUE BY: Tuesday, 2/12/91 NOON

SUBJECT: PRESIDENTIAL REMARKS: AMERICAN ASSOC. FOR THE ADVANCEMENT OF SCIENCE

	ACTION FYI			ACTION FYI	
VICE PRESIDENT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	MCCLURE	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SUNUNU	<input type="checkbox"/>	<input type="checkbox"/>	NEWMAN	<input type="checkbox"/>	<input type="checkbox"/>
SCOWCROFT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PORTER	<input checked="" type="checkbox"/>	<input type="checkbox"/>
DARMAN	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ROGICH	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BRADY	<input type="checkbox"/>	<input checked="" type="checkbox"/>	UNTERMEYER	<input type="checkbox"/>	<input type="checkbox"/>
CARD	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>BROMLEY</u> →	<input checked="" type="checkbox"/>	<input type="checkbox"/>
DEMAREST	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>ALBRECHT</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
FITZWATER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>ROGERS</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GRAY	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>WINSTON</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
HOLIDAY	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>

REMARKS:

Please forward your comments directly to Chriss Winston, Rm. 122, x2930, no later than NOON, Tuesday, February 12, with a copy to this office. Thank you.

RESPONSE:

Changes from D. Allan Bramley through Steve Olson. (x2734)

PHILLIP D. BRADY
 Assistant to the President
 and Staff Secretary
 Ext. 2702

had many close ties to the federal government. Dr. Atkinson was a former director of the National Science Foundation. My science advisor Allan Bromley is a former President of the AAAS, and so was Walter Masscy, whom I have nominated to be the new director of NSF. The AAAS has long.

(Lange/Cawley)

February 11, 1991

1:15 P.M.

[AAAS.DOC]

91 FEB 11 PM 1:40

PRESIDENTIAL REMARKS: AMERICAN ASSOCIATION FOR
THE ADVANCEMENT OF SCIENCE
SHERATON WASHINGTON
10:00
FRIDAY, FEBRUARY 15, 1991

[[Thank you, Dr. Atkinson. Dr. Langenberg, ~~Dr. Lederman;~~
Dr. Bromley; distinguished friends of science.]] It's an honor
to be here. Since its founding nearly a century and a half ago,
the AAAS ["Triple-A, S"] has been a seedbed for some of the
best scientific minds in America.

Your association has ^{watched over} ~~helped guide~~ the most far-reaching and
breathtaking transformation that human society has ever known.
Over the course of this century, science and technology have
brought unprecedented prosperity, mobility, health, and security
to millions -- here, and around the world.

Today, the spirit of innovation is alive and well in
America. [[Of course, times have changed. Some say that if
Edison had invented the lightbulb today, we'd have scores of
studies citing the dangers of electricity -- and the newspapers
would headline the story, "Candle Industry Threatened."]]

But because this country has long embodied the virtues of
free inquiry and invention, we've been given great power, and
greater responsibility. Science has greatly broadened human
potential -- the potential to do harm as well as good. Yet the
words of Thomas Jefferson to General Kosciusko, the great Polish-
American freedom fighter, still ring true: "The main objects of
all science," he wrote, "are the freedom and happiness of man."

Biotechnology is producing new vaccines and new treatments for disease. Space probes are exploring the planets and shedding light on the creation of the universe.

"Terrors of science" too extreme

Today, we are witness to ^{the} wonders of science ^{are being} that outweigh ~~e~~ abundantly demonstrated. ~~And~~ some of its greatest terrors. ~~And~~ Anyone who's been near a

television in recent weeks has seen dramatic evidence of how technology is changing the face of war. Modern weapons are making it possible to face down aggression without the degree of widespread destruction and loss of civilian life of wars past.

Our investment in defense research and development over the past decade is now saving the lives of Americans -- of our allies -- and even of our adversaries. I am certain that this struggle will end decisively. Let us all pray that it ends quickly. \\\

Here at home, science and technology are also a crucial key to our economic strength. The Presidency brings no powers of prophecy, but if the past is prologue, our economic future is going to be very bright indeed.

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But beyond advances in prosperity and security, we also gain an important intellectual and spiritual dimension. Work on the frontiers of human knowledge represents one of the greatest adventures of mankind. In an important sense, it is what makes our species unique in the rich fabric of life.

For all of these reasons, the budget that I sent to Capitol Hill last week included a 13 percent increase for research and development. That increase is one of the largest in the budget

-- and it's proof of our determination to make the investments needed to ensure this country's continued leadership. We intend to help scientists spend less time searching for funding, and more time making breakthroughs. \\\

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Increases in basic research at ^{NIH,} the Department of Energy, ^{NIH,} NASA, and the Department of Agriculture will add to the base of knowledge on which the future is being built -- again with an emphasis on individual investigators and smaller groups.

At the same time, this budget makes a strong commitment to the facilities that many of these same scientists will need to reach the future frontiers of their fields. ~~It nearly doubles~~ ~~funding for the Superconducting Super Collider.~~ ~~And we're~~ supporting a balanced program of ^{such} ~~other~~ facilities and ~~research~~ -- ~~nuclear~~ accelerators in physics, telescopes in astronomy, a strong space science program at NASA, and the human genome project in biology -- all projects that will have a profound impact on humanity.

Increase at NIH much larger than others.

The SSC is a controversial subject for this group.

It is never possible to tell how or when scientific discoveries will prove useful, but some basic research is targeted at clear and immediate needs. Over the next year, for example, the United States will spend over a billion dollars on the U.S. Global Change Program. Part of our efforts take the form of a Mission to Planet Earth, where satellites will monitor the Earth from space and gauge its changes.

And even as we look inward, we must continue to look outward, toward the stars, as man has done throughout the ages. Our Mission from Planet Earth will extend this human curiosity to frontiers beyond our own planet, to the Moon, to the planets, and beyond. As with much of science, we cannot be sure of what we will find there. But we can be sure that the quest will make our lives richer, both materially and spiritually.

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This will not be an easy goal to reach, but we take it very seriously. Last week, an interagency group under the leadership of Secretary Watkins released a program calling for substantial increases in federal funding for mathematics and science education. That group also coordinates and integrates federal activities, so that federal dollars go farther.

Still, those math and science goals will never be achieved if they're seen as goals for government alone. All sectors of society must recognize the importance of scientific literacy and strive to achieve it.

And that's where the AAAS comes in. Your Project 2061 is working where all lasting change must occur -- at the local level -- to transform the ways in which mathematics and science are taught. We'll be looking closely at this experiment, to guide our own efforts.

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The sheer adventure of science is one of the main reasons for holding this meeting -- and for the existence of the "Triple-A, S." There are many ways to share that sense of adventure, through education and public outreach -- and it has never been more important than now.

I firmly believe that the world's well-being depends more than ever on science and technology. It is our nature. We are, as we have always been, the only creature on this earth whose one insatiable hunger, and greatest desire, is for knowledge.

Your work is vitally important. Of all humanity's concerns, the power of knowing is the greatest pursuit -- the surest promise of a brighter future -- the greatest covenant we keep with future generations.

So let us pursue the adventure of science as a sacred trust. And let us keep the fire of the American mind burning brightly, for the sake of the future our children deserve.

Thank you all. May God bless the United States of America.

#

91 FEB 13

WHITE HOUSE STAFFING MEMORANDUM

DATE: 2/11/91

ACTION/CONCURRENCE/COMMENT DUE BY: Tuesday, 2/12/91 NOON

SUBJECT: PRESIDENTIAL REMARKS: AMERICAN ASSOC. FOR THE ADVANCEMENT OF SCIENCE

	ACTION FYI			ACTION FYI	
VICE PRESIDENT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	MCCLURE	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SUNUNU	<input type="checkbox"/>	<input type="checkbox"/>	NEWMAN	<input type="checkbox"/>	<input type="checkbox"/>
SCOWCROFT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PORTER	<input checked="" type="checkbox"/>	<input type="checkbox"/>
DARMAN	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ROGICH	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BRADY	<input type="checkbox"/>	<input checked="" type="checkbox"/>	UNTERMAYER	<input type="checkbox"/>	<input type="checkbox"/>
CARD	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>BROMLEY</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
DEMAREST	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>ALBRECHT</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
FITZWATER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>ROGERS</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GRAY	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>WINSTON</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
HOLIDAY	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>

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RESPONSE:

*cut down for
Room 450
AD*

PHILLIP D. BRADY
Assistant to the President
and Staff Secretary
Ext. 2702

91 FEB 11 PM 1:40

(Lange/Cawley)
February 11, 1991
1:15 P.M.
[AAAS.DOC]

PRESIDENTIAL REMARKS: AMERICAN ASSOCIATION FOR
THE ADVANCEMENT OF SCIENCE
SHERATON WASHINGTON
10:00
FRIDAY, FEBRUARY 15, 1991

[[Thank you, Dr. Atkinson. Dr. Langenberg, Dr. Lederman;
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Over the course of this century, science and technology have
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to millions -- here, and around the world.

Today, the spirit of innovation is alive and well in
America. [[Of course, times have changed. Some say that if
Edison had invented the lightbulb today, we'd have scores of
studies citing the dangers of electricity -- and the newspapers
would headline the story, "Candle Industry Threatened."]]

But because this country has long embodied the virtues of
free inquiry and invention, we've been given great power, and
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words of Thomas Jefferson to General Kosciusko, the great Polish-
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But beyond advances in prosperity and security, we also gain an important intellectual and spiritual dimension. Work on the frontiers of human knowledge represents one of the greatest adventures of mankind. In an important sense, it is what makes our species unique in the rich fabric of life.

For all of these reasons, the budget that I sent to Capitol Hill last week included a 13 percent increase for research and development. That increase is one of the largest in the budget

*Later today
I will visit
the Patriot
missile plant.*

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Increases in basic research at the Department of Energy, NIH, NASA, and the Department of Agriculture will add to the base of knowledge on which the future is being built -- again with an emphasis on individual investigators and smaller groups.

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So let us pursue the adventure of science as a sacred trust. And let us keep the fire of the American mind burning brightly, for the sake of the future our children deserve.

Thank you all. May God bless the United States of America.

#

1067

WHITE HOUSE STAFFING MEMORANDUM

91 FEB 11 P 4: 36



DATE: 2/11/91

ACTION/CONCURRENCE/COMMENT DUE BY: Tuesday, 2/12/91 NOON

SUBJECT: PRESIDENTIAL REMARKS: AMERICAN ASSOC. FOR THE ADVANCEMENT OF SCIENCE

	ACTION FYI			ACTION FYI	
VICE PRESIDENT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	MCCLURE	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SUNUNU	<input type="checkbox"/>	<input type="checkbox"/>	NEWMAN	<input type="checkbox"/>	<input type="checkbox"/>
SCOWCROFT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PORTER	<input checked="" type="checkbox"/>	<input type="checkbox"/>
DARMAN	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ROGICH	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BRADY	<input type="checkbox"/>	<input checked="" type="checkbox"/>	UNTERMAYER	<input type="checkbox"/>	<input type="checkbox"/>
CARD	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>BROMLEY</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
DEMAREST	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>ALBRECHT</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
FITZWATER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>ROGERS</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GRAY	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>WINSTON</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
HOLIDAY	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>

REMARKS:

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RESPONSE:

February 12, 1991

TO: CHRISS WINSTON

The NSC concurs with the attached as revised.

Brent Scowcroft
Brent Scowcroft

cc: Phillip Brady

PHILLIP D. BRADY
Assistant to the President
and Staff Secretary
Ext. 2702

RECEIVED

91 FEB 11 P 4: 36

91 FEB 11 PM 1:40

(Lange/Cawley)
February 11, 1991
1:15 P.M.
[AAAS.DOC]

PRESIDENTIAL REMARKS: AMERICAN ASSOCIATION FOR
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*Delete sentence -
Doesn't fit*

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RBP
CUT DOWN
INDIV. INVESTIG.
(3 refs.)

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And even as we look inward, we must continue to look outward, toward the stars, as man has done throughout the ages. Our Mission from Planet Earth will extend this human curiosity to frontiers beyond our own planet, to the Moon, to the planets, and beyond. As with much of science, we cannot be sure of what we will find there. But we can be sure that the quest will make our lives richer, both materially and spiritually.

This budget also provides for investments in more down-to-earth technologies. We are committed to working with American industry to make it easier for companies to capitalize on the discoveries of basic science -- and to develop new products and processes. That's why I am again calling on the Congress to make the research and experimentation tax credit permanent. It is time for Congress to make this long-term commitment to our technological future.

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This will not be an easy goal to reach, but we take it very seriously. Last week, an interagency group under the leadership of Secretary Watkins released a program calling for substantial increases in federal funding for mathematics and science education. That group also coordinates and integrates federal activities, so that federal dollars go farther.

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R.B.P.:

✓
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 detail

✓

✓

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I firmly believe that the world's well-being depends more than ever on science and technology. It is our nature. We are, as we have always been, the only creature on this earth whose one insatiable hunger, and greatest desire, is for knowledge.

Your work is vitally important. Of all humanity's concerns, the power of knowing is the greatest pursuit -- the surest promise of a brighter future -- the greatest covenant we keep with future generations.

So let us pursue the adventure of science as a sacred trust. And let us keep the fire of the American mind burning brightly, for the sake of the future our children deserve.

Thank you all. May God bless the United States of America.

#

R.R. 2878

R.B.P. via
BRAD MITCHELL 2/12

#26 Billon record total of Fed deposit in 1990

when we think about P&A on a nation, these
Components: best in this field go back to
① what prof. is spending
② " " prof. rate in doing

make from the the P
P&A for credit to
Not from
state to
what

total of 152 bill.
Callan Cargen to do it

double in the budget;

I'm ~~not~~ asking again this yr.

Get the private some certainty to the Gov't
to let them plan.

WHITE HOUSE STAFFING MEMORANDUM

1/28/91 P1:44

DATE: 2/11/91

ACTION/CONCURRENCE/COMMENT DUE BY: Tuesday, 2/12/91 NOON

SUBJECT: PRESIDENTIAL REMARKS: AMERICAN ASSOC. FOR THE ADVANCEMENT OF SCIENCE

	ACTION FYI			ACTION FYI	
VICE PRESIDENT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	MCCLURE	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SUNUNU	<input type="checkbox"/>	<input type="checkbox"/>	NEWMAN	<input type="checkbox"/>	<input type="checkbox"/>
SCOWCROFT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PORTER	<input checked="" type="checkbox"/>	<input type="checkbox"/>
DARMAN	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ROGICH	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BRADY	<input type="checkbox"/>	<input checked="" type="checkbox"/>	UNTERMAYER	<input type="checkbox"/>	<input type="checkbox"/>
CARD	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>BROMLEY</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
DEMAREST	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>ALBRECHT</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
FITZWATER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>ROGERS</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GRAY	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>WINSTON</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
HOLIDAY	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

REMARKS:

Please forward your comments directly to Chriss Winston, Rm. 122, x2930, no later than NOON, Tuesday, February 12, with a copy to this office. Thank you.

RESPONSE:

*See comments. Thanks.
Holly Williamson
2-12-91*

PHILLIP D. BRADY
Assistant to the President
and Staff Secretary
Ext. 2702

Please also note that Hots was planning to send a sentence to insert on page 3, but I have not heard from them. Thanks. Holly

91 FEB 11 PM 1:40

(Lange/Cawley)
February 11, 1991
1:15 P.M.
[AAAS.DOC]

PRESIDENTIAL REMARKS: AMERICAN ASSOCIATION FOR
THE ADVANCEMENT OF SCIENCE
SHERATON WASHINGTON
10:00
FRIDAY, FEBRUARY 15, 1991

[[Thank you, Dr. Atkinson. Dr. Langenberg, Dr. Lederman;
Dr. Bromley; distinguished friends of science.]] It's an honor
to be here. Since its founding nearly a century and a half ago,
the AAAS ["Triple-A, S"] has been a seedbed for some of the
best scientific minds in America.

Your association has helped guide the most far-reaching and
breathtaking transformation that human society has ever known.
Over the course of this century, science and technology have
brought unprecedented prosperity, mobility, health, and security
to millions -- here, and around the world.

Today, the spirit of innovation is alive and well in
America. [[Of course, times have changed. Some say that if
Edison had invented the lightbulb today, we'd have scores of
studies citing the dangers of electricity -- and the newspapers
would headline the story, "Candle Industry Threatened."]]

But because this country has long embodied the virtues of
free inquiry and invention, we've been given great power, and
greater responsibility. Science has greatly broadened human
potential -- the potential to do harm as well as good. Yet the
words of Thomas Jefferson to General Kosciusko, the great Polish-
American freedom fighter, still ring true: "The main objects of
all science," he wrote, "are the freedom and happiness of man."

Today, we are witness to wonders of science that outweigh some of its greatest terrors. Anyone who's been near a television in recent weeks has seen dramatic evidence of how technology is changing the face of war. Modern weapons are making it possible to face down aggression without the degree of widespread destruction and loss of civilian life of wars past.

Our investment in defense research and development over the past decade is now saving the lives of Americans -- of our allies -- and even of our adversaries. I am certain that this struggle will end decisively. Let us all pray that it ends quickly. \\\

Here at home, science and technology are also a crucial key to our economic strength. The Presidency brings no powers of prophecy, but if the past is prologue, our economic future is going to be very bright indeed.

Over half of the economic growth we've enjoyed since the 1930's has been the result of new knowledge -- including the results of science and technology. By any measure, the economic returns on science and technology are dramatic.

But beyond advances in prosperity and security, we also gain an important intellectual and spiritual dimension. Work on the frontiers of human knowledge represents one of the greatest adventures of mankind. In an important sense, it is what makes our species unique in the rich fabric of life.

For all of these reasons, the budget that I sent to Capitol Hill last week included a 13 percent increase for research and development. That increase is one of the largest in the budget

-- and it's proof of our determination to make the investments needed to ensure this country's continued leadership. We intend to help scientists spend less time searching for funding, and more time making breakthroughs. \\\

One of our highest priorities is basic research -- especially by the individual scientist or smaller team. To support their work, our budget calls for a billion dollar increase in basic research. Funding at the National Science Foundation would go up 18 percent, which would put the NSF budget back on the track toward the doubling that I've long sought. And funding to support work on the basic sciences -- mostly by individual investigators -- would go up by 16 percent.

Increases in basic research at the Department of Energy, NIH, NASA, and the Department of Agriculture will add to the base of knowledge on which the future is being built -- again with an emphasis on individual investigators and smaller groups.

At the same time, this budget makes a strong commitment to the facilities that many of these same scientists will need to reach the future frontiers of their fields. It nearly doubles funding for the Superconducting Super Collider. And we're supporting a balanced program of other facilities and research -- nuclear accelerators in physics, telescopes in astronomy, a strong space science program at NASA, and the human genome project in biology -- all projects that will have a profound impact on humanity.

It is never possible to tell how or when scientific discoveries will prove useful, but some basic research is targeted at clear and immediate needs. Over the next year, for example, the United States will spend over a billion dollars on the U.S. Global Change Program. Part of our efforts take the form of a Mission to Planet Earth, where satellites will monitor the Earth from space and gauge its changes.

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See DOE'S revision

On next page.

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So let us pursue the adventure of science as a sacred trust. And let us keep the fire of the American mind burning brightly, for the sake of the future our children deserve.

Thank you all. May God bless the United States of America.

#

WHITE HOUSE STAFFING MEMORANDUM

91 FEB 12 P2:23

DATE: 2/11/91 ACTION/CONCURRENCE/COMMENT DUE BY: Tuesday, 2/12/91 NOON

SUBJECT: PRESIDENTIAL REMARKS: AMERICAN ASSOC. FOR THE ADVANCEMENT OF SCIENCE

	ACTION FYI			ACTION FYI	
VICE PRESIDENT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	MCCLURE	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SUNUNU	<input type="checkbox"/>	<input type="checkbox"/>	NEWMAN	<input type="checkbox"/>	<input type="checkbox"/>
SCOWCROFT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PORTER	<input checked="" type="checkbox"/>	<input type="checkbox"/>
DARMAN	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ROGICH	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BRADY	<input type="checkbox"/>	<input checked="" type="checkbox"/>	UNTERMAYER	<input type="checkbox"/>	<input type="checkbox"/>
CARD	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>BROMLEY</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
DEMAREST	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>ALBRECHT</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
FITZWATER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>ROGERS</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GRAY	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>WINSTON</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
HOLIDAY	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>

REMARKS:

Please forward your comments directly to Chriss Winston, Rm. 122, x2930, no later than NOON, Tuesday, February 12, with a copy to this office. Thank you.

RESPONSE:

NATIONAL Space Council Concurs.

S.P. Warden

for Mark Albrecht.

PHILLIP D. BRADY
Assistant to the President
and Staff Secretary
Ext. 2702

THE WHITE HOUSE
WASHINGTON

91 FEB 12 P1:54

February 12, 1991

MEMORANDUM FOR CHRISS WINSTON
DEPUTY ASSISTANT TO THE PRESIDENT FOR
COMMUNICATIONS AND DIRECTOR OF SPEECHWRITING

FROM: JEFFREY R. HOLMSTEAD *JRH/kem*
ASSOCIATE COUNSEL TO THE PRESIDENT

SUBJECT: Presidential Remarks: American Association for
the Advancement of Science

Counsel's Office has no legal objection to the Presidential remarks referenced above.

I have marked an editorial suggestion on page 4 of the attached draft for your consideration.

Thank you for the opportunity to review this matter.

Attachment

cc: Phillip D. Brady
Assistant to the President
and Staff Secretary

WHITE HOUSE STAFFING MEMORANDUM

DATE: 2/11/91 ACTION/CONCURRENCE/COMMENT DUE BY: Tuesday, 2/12/91 NOON

SUBJECT: PRESIDENTIAL REMARKS: AMERICAN ASSOC. FOR THE ADVANCEMENT OF SCIENCE

	ACTION FYI			ACTION FYI	
VICE PRESIDENT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	MCCLURE	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SUNUNU	<input type="checkbox"/>	<input type="checkbox"/>	NEWMAN	<input type="checkbox"/>	<input type="checkbox"/>
SCOWCROFT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PORTER	<input checked="" type="checkbox"/>	<input type="checkbox"/>
DARMAN	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ROGICH	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BRADY	<input type="checkbox"/>	<input checked="" type="checkbox"/>	UNTERMAYER	<input type="checkbox"/>	<input type="checkbox"/>
CARD	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>BROMLEY</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
DEMAREST	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>ALBRECHT</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
FITZWATER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>ROGERS</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GRAY	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>WINSTON</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
HOLIDAY	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>

REMARKS:

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RESPONSE:

PHILLIP D. BRADY
Assistant to the President
and Staff Secretary
Ext. 2702

91 FEB 11 PM 1:40

(Lange/Cawley)
February 11, 1991
1:15 P.M.
[AAAS.DOC]

PRESIDENTIAL REMARKS: AMERICAN ASSOCIATION FOR
THE ADVANCEMENT OF SCIENCE
SHERATON WASHINGTON
10:00
FRIDAY, FEBRUARY 15, 1991

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breathtaking transformation that human society has ever known.
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brought unprecedented prosperity, mobility, health, and security
to millions -- here, and around the world.

Today, the spirit of innovation is alive and well in
America. [[Of course, times have changed. Some say that if
Edison had invented the lightbulb today, we'd have scores of
studies citing the dangers of electricity -- and the newspapers
would headline the story, "Candle Industry Threatened."]]

But because this country has long embodied the virtues of
free inquiry and invention, we've been given great power, and
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potential -- the potential to do harm as well as good. Yet the
words of Thomas Jefferson to General Kosciusko, the great Polish-
American freedom fighter, still ring true: "The main objects of
all science," he wrote, "are the freedom and happiness of man."

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to have immediate practical uses,
4

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So let us pursue the adventure of science as a sacred trust. And let us keep the fire of the American mind burning brightly, for the sake of the future our children deserve.

Thank you all. May God bless the United States of America.

#

WHITE HOUSE STAFFING MEMORANDUM

91 FEB 12 A9:39

DATE: 2/11/91

ACTION/CONCURRENCE/COMMENT DUE BY: Tuesday, 2/12/91 NOON

SUBJECT: PRESIDENTIAL REMARKS: AMERICAN ASSOC. FOR THE ADVANCEMENT OF SCIENCE

	ACTION FYI			ACTION FYI	
VICE PRESIDENT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	MCCLURE	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SUNUNU	<input type="checkbox"/>	<input type="checkbox"/>	NEWMAN	<input type="checkbox"/>	<input type="checkbox"/>
SCOWCROFT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PORTER	<input checked="" type="checkbox"/>	<input type="checkbox"/>
DARMAN	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ROGICH	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BRADY	<input type="checkbox"/>	<input checked="" type="checkbox"/>	UNTERMEYER	<input type="checkbox"/>	<input type="checkbox"/>
CARD	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>BROMLEY</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
DEMAREST	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>ALBRECHT</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
FITZWATER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>ROGERS</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GRAY	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>WINSTON</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
HOLIDAY	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>

REMARKS:

Please forward your comments directly to Chriss Winston, Rm. 122, x2930, no later than NOON, Tuesday, February 12, with a copy to this office. Thank you.

RESPONSE:

(Handwritten signature: K.S.R. circled in blue)

PHILLIP D. BRADY
 Assistant to the President
 and Staff Secretary
 Ext. 2702

91 FEB 11 PM 1:40

(Lange/Cawley)
February 11, 1991
1:15 P.M.
[AAAS.DOC]

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So let us pursue the adventure of science as a sacred trust. And let us keep the fire of the American mind burning brightly, for the sake of the future our children deserve.

Thank you all. May God bless the United States of America.

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EXECUTIVE OFFICE OF THE PRESIDENT
 OFFICE OF MANAGEMENT AND BUDGET
 WASHINGTON, D.C. 20503

FEB 12 P4:51

NOTICE:

Enclosed are comments from sta:
 Management and Budget (OMB). Such
 represent the official position of
 Office of Management and Budget.
 Director's personal comments, plea
 me if you have any questions.

To Mark Lange
 Date 2/13 Time 11:55A

WHILE YOU WERE OUT

M OMB
 of _____
 Phone _____

Area Code	Number	Extension
TELEPHONED	<input checked="" type="checkbox"/>	PLEASE CALL
CALLED TO SEE YOU	<input type="checkbox"/>	WILL CALL AGAIN
WANTS TO SEE YOU	<input type="checkbox"/>	URGENT

RETURNED YOUR CALL

Message said Director's
office signed
off on comments
as deli

Operator _____



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23-023 CARBONLESS

WHITE HOUSE STAFFING MEMORANDUM

DATE: 2/11/91

ACTION/CONCURRENCE/COMMENT DUE BY: Tuesday, 2/12/91 NOON

SUBJECT: PRESIDENTIAL REMARKS: AMERICAN ASSOC. FOR THE ADVANCEMENT OF SCIENCE

	ACTION FYI			ACTION FYI	
VICE PRESIDENT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	MCCLURE	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SUNUNU	<input type="checkbox"/>	<input type="checkbox"/>	NEWMAN	<input type="checkbox"/>	<input type="checkbox"/>
SCOWCROFT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	PORTER	<input checked="" type="checkbox"/>	<input type="checkbox"/>
DARMAN	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ROGICH	<input checked="" type="checkbox"/>	<input type="checkbox"/>
BRADY	<input type="checkbox"/>	<input checked="" type="checkbox"/>	UNTERMEYER	<input type="checkbox"/>	<input type="checkbox"/>
CARD	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>BROMLEY</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
DEMAREST	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>ALBRECHT</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
FITZWATER	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>ROGERS</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GRAY	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>WINSTON</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
HOLIDAY	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____	<input type="checkbox"/>	<input type="checkbox"/>

REMARKS:

Please forward your comments directly to Chriss Winston, Rm. 122, x2930, no later than NOON, Tuesday, February 12, with a copy to this office. Thank you.

RESPONSE:

See comments

PHILLIP D. BRADY
Assistant to the President
and Staff Secretary
Ext. 2702

91 FEB 11 PM 1:40

(Lange/Cawley)
February 11, 1991
1:15 P.M.
[AAAS.DOC]

PRESIDENTIAL REMARKS: AMERICAN ASSOCIATION FOR
THE ADVANCEMENT OF SCIENCE
SHERATON WASHINGTON
10:00
FRIDAY, FEBRUARY 15, 1991

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Dr. Bromley; distinguished friends of science.]] It's an honor
to be here. Since its founding nearly a century and a half ago,
the AAAS ["Triple-A, S"] has been a seedbed for some of the
best scientific minds in America.

Your association has helped guide the most far-reaching and
breathtaking transformation that human society has ever known.
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brought unprecedented prosperity, mobility, health, and security
to millions -- here, and around the world.

Today, the spirit of innovation is alive and well in
America. [[Of course, times have changed. Some say that if
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studies citing the dangers of electricity -- and the newspapers
would headline the story, "Candle Industry Threatened."]]

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 Brady
 4/8/44

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 is never targeted.
 (A lot of the
 global change
 research is
 applications)

Grady
 4/4/84

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(the budget is not supporting the industries)

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See insert next page scully 45178

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Insert - Page 5

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