THE WHITE HOUSE

Office of the Press Secretary

For Immediate Release September 16, 1991

REMARKS BY THE PRESIDENT
DURING PRESENTATION OF NATIONAL MEDAL OF SCIENCE
AND NATIONAL MEDAL OF TECHNOLOGY

The Rose Garden

10:30 A.M. EDT

THE PRESIDENT: Thank you. Please be seated, and let me welcome the dignitaries -- that's almost everybody. I don't know who is excluded, but -- (laughter) -- first, Secretary Mosbacher and Secretary Lujan here -- Bob over my shoulder -- Allan Bromley, my Science Advisor; Henson Moore, I believe is to be here, of Energy; and, of course, Rock Schnabel of Commerce; Walter Massey, the Director of the National Science Foundation. And then finally and perhaps most important today, our honorees and their friends and families. It's my pleasure to welcome all of you to this steamy Rose Garden. (Laughter.)

And with us today are five Nobel Laureates, leading engineers of the Informaton Age, authors of some of this century's world-changing discoveries and inventions. Men and women whose quantum leaps of learning compress generations of knowledge within a single lifetime of achievement. From the first moments of creation to the frontiers of the solar system and now, with Voyager, beyond: your knowledge spans the broad canvas of human endeavor.

Some of you are not only experts in your field, you invented your field. Your quests and questions produced new disciplines, new knowledge, new ways of looking at our world.

And today, your nation recognizes your monumental accomplishments, honors the differences you have made: advancing human understanding, improving the human condition, helping mankind conquer ignorance and illness, helping this nation compete and prosper.

Today's award winners range in age from the Pegasus Team -- a group of precocious 40-something scientists and one 37-year-old -- who designed and built the world's first private space rocket to Admiral Grace Hopper, born in 1906, who pioneered the revolution that put personal computers on the desks of millions of Americans -- and dragged even this President into the computer age. (Laughter.)

I was asked for a report. It's been almost six months since my first computer lesson, and I'm making progress. I make the same mistakes, but I do it five times faster. It's marvelous. (Laughter.)

The men and women we honor exemplify not simply the life of the mind, but the spirit of adventure and risk that accompanies the quest for advancement.

Take Stephen Bechtel, whose vision helped a city spring from the Saudi desert, helped turn the Arctic waters of James Bay into a source of energy for millions of North Americans, and who's now helping Kuwait rise up from the ashes of war.

Consider Colonel Stapp, John Paul Stapp, expert on the human impact of G-forces stress. When his experiments became too

dangerous to impose on others, Colonel Stapp became his own subject. And as a former Naval aviator, I can hardly believe he's withstood 40 Gs: That's the same as going from 632 miles per hour to a dead stop in 1.4 seconds. Colonel Stapp put himself on the line and made flying safer for everyone from passengers on commuter shuttles to the astronauts now orbiting the Earth on Discovery.

From the work of a single individual come benefits that can banish suffering and prolong life for many millions of people. Consider the career of Gertrude Elion, Nobel Prize-winning biochemist. Her life's work spans the quest to defeat Leukemia and Malaria to today's battle against AIDs and other immune system disorders.

Together, your efforts transformed our world. And yet, as a nation, our honor for all you've done falls short if we fail to sustain your forward march. This administration has proposed what progress demands: record funding levels for research and development, with funds channeled to the individual investigator and small research teams that so often redefine state-of-the-art. To advance technology, we've focused funds on the areas of energy and aeronautics, biotechnology and advanced materials, high performance computing and communications.

To advance science and engineering research, we've urged Congress to approve an 18-percent increase in funding for the National Science Foundation, keeping us on track with our commitment to double spending on that vital research arm by the year 1994. Our commitment to science and technology proves beyond doubt we will not shortchange the future.

In the words of Astronomer Edwin Powell Hubble: "Equipped with his five senses, man explores the universe around him, and calls the adventure science." Well, science and technology hold open the hope of infinite possibility -- of answers that eluded Einstein, of a new world free from fear and want. And that same shining future -- the new world of possibility -- exists within every child.

In the end, progress of enlightenment comes down to education, and what are we doing to cultivate the children sitting today in classrooms around the country -- the generation we'll ask to provide solutions to the challenges of a new century, answers to questions that haven't even yet been asked.

Unless we act immediately, the next generation may not be equipped to follow in your footsteps. All of you know our national education goals and the strategy that we call America 2000 -- our challenge to everyone with a stake in our schools to literally reinvent American education. Well, right now, in some studies of math and science aptitude, U.S. students rank dead last amongst the industrialized nations. And that one statistic alone should shake us out of our complacency and show us the scope of the challenge that we face.

If we're going to be first in the world in math and science by 2000, there's not a moment to waste. Because we're serious, next year's budget targets $661 million for precollege math and science education -- a one-year increase of 28 percent.

And today, I salute every one of you who has taken the time to share your wisdom in the classroom. I mentioned earlier that we have five Nobel laureates with us today. Let me recognize another medal-winner for a singular distinction: Elvin Kabat, who's had the satisfaction of seeing one of his students go on to win a Nobel.

We must preserve the vital connection between teaching and research. That's the idea behind the Commerce Department's

Technology Heroes Program -- to turn Medal of Technology winners into role models for our kids. And that's why, today, I am pleased to announce the establishment of the Presidential Faculty Fellows Program -- to provide 5-year grants totaling $500,000 to as many as each of 30 young faculty members each year. These grants will support young scholars in their path-breaking work in science and technology and their teaching in the classroom. Perhaps years from now, some of those Presidential Faculty Fellows will have their own day here in the Rose Garden.

In honoring each of you, this nation honors the boundless horizons of the human mind, the soaring spirit of inquiry, the special genius of the architects who fashion today's fantastic idea into tomorrow's usable tool. Your work stands as its own reward; so let me simply add your nation's thanks.

Once again, welcome to the White House. Congratulations on your well-deserved honors. Now, with the help of Dr. Massey and Secretary Mosbacher and Dr. Allan Bromley, we will present the awards.

Thank you all very much. (Applause.)

(The awards are presented.)

THE PRESIDENT: Well done to the presenter. I guess that concludes it, doesn't it?

Thank you all and, again, my congratulations. I think that concludes the ceremony. And the person that's in charge of the weather, please meet me inside. (Laughter.) Thank you all very much. (Applause.)

END 10:40 A.M. EDT

Document No. _____

WHITE HOUSE STAFFING MEMORANDUM

DATE: 91 SEP 13 P2:37 9/13/91 ACTION/CONCURRENCE/COMMENT DUE BY: ---

SUBJECT: PRESIDENTIAL REMARKS: NATIONAL MEDAL OF SCIENCE AND TECHNOLOGY CEREMONY

	ACTION	FYI		ACTION	FYI
VICE PRESIDENT	☐	☑	MCCLURE	☐	☑
SUNUNU	☐	☐	PETERSMEYER	☐	☐
SCOWCROFT	☐	☑	PORTER	☐	☑
DARMAN	☐	☑	ROGICH	☐	☑
BRADY	☐	☑	SMITH	☐	☑
BROMLEY	☐	☑	UNTERMEYER	☐	☐
CARD	☐	☑	SNOW	☐	☑
DEMAREST	☐	☑	_____	☐	☐
FITZWATER	☐	☑	_____	☐	☐
GRAY	☐	☑	_____	☐	☐
HOLIDAY	☐	☑	_____	☐	☐

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

September 12, 1991

91 SEP 13 P12:14

MEMORANDUM FOR THE PRESIDENT

THROUGH: DAVID DEMAREST
TONY SNOW TS

FROM: DAN McGROARTY DMcG

SUBJECT: NATIONAL MEDAL OF SCIENCE AND TECHNOLOGY CEREMONY

On Monday, September 16, you will deliver remarks to an audience of approximately 210 at the National Medal of Science and Technology ceremony in the Rose Garden. Secretary Manuel Lujan and Deputy Secretary Henson Moore are expected to attend. The audience will consist primarily of recipients and their family members. After your remarks, Dr. Walter Massey, Director of the National Science Foundation, will read the citations. You will join Secretary Mosbacher and Dr. Bromley in presenting the medals.

Your remarks (approximately 8 minutes/on cards) highlight the recipients and their achievements. Then they focus on federal funding for science, technology, and research and development; and the importance of math and science education.

McGroarty/Bunton
September 13, 1991
11:30 am
[AWARDS]

PRESIDENTIAL REMARKS: NATIONAL SCIENCE AND TECHNOLOGY AWARDS
SEPTEMBER 16, 1991
THE ROSE GARDEN
10:30 A.M.

It's my pleasure to welcome all of you to the Rose Garden. [Introductory acknowledgements: Secretaries Mosbacher and Lujan. Dr. Bromley. Henson Moore. Dr. Walter Massey, Director of NSF.]

With us today are five Nobel laureates; leading engineers of the information age; authors of some of this century's world-changing discoveries and inventions -- men and women whose quantum leaps of learning compress generations of knowledge within a single lifetime of achievement. // From the first moments of creation -- to the frontiers of the solar system and, now with Voyager, beyond: your knowledge spans the broad canvas of human endeavor. //

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-- to Admiral Grace Hopper, born in 1906, who pioneered the revolution that put personal computers on the desks of millions of Americans -- [[and dragged even this President into the computer age. It's been almost six months since my first computer lesson, and I'm making progress: I make the same mistakes -- but five times faster.]]

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leukemia and malaria -- to today's battle against AIDS and other immune system disorders. //

Together, your efforts transformed our world. Yet as a Nation, our honor for all you've done falls short if we fail to sustain your forward march. / This Administration has proposed what progress demands: record funding levels for research and development -- with funds channeled to the individual investigator and small research teams that so often redefine the state-of-the-art. To advance technology, we've focused funds on the areas of energy and aeronautics, biotechnology and advanced materials, high performance computing and communications. To advance science and engineering research, we've urged Congress to approve an 18 percent increase in funding for the National Science Foundation -- keeping us on track with our commitment to double spending on that vital research arm by the year 1994. // Our commitment to science and technology proves beyond doubt we will not shortchange the future. //

In the words of astronomer Edwin Powell Hubble: "Equipped with his five senses, man explores the universe around him, and calls the adventure Science." Science and technology hold open the hope of infinite possibility -- of answers that eluded Einstein, of a new world free from fear and want. That same shining future -- that new world of possibility -- exists within every child. // In the end, the progress of enlightenment comes down to education: what are we doing to cultivate the children sitting today in classrooms around the country -- the generation

we'll ask to provide solutions to the challenges of a new century, answers to questions that haven't yet been asked. /

Unless we act immediately, the next generation may not be equipped to follow in your footsteps. / All of you know our National Education Goals, and the strategy I call America 2000 -- our challenge to everyone with a stake in our schools to literally re-invent American education. / Well right now, in some studies of math and science aptitude, U.S. students rank dead last among the industrialized nations. That one statistic alone should shake us out of our complacency -- and show us the scope of the challenge we face. //

If we're going to be first in the world in math and science by the year 2000, there's not a moment to waste. Because we're serious, next year's budget targets $661 million for pre-college math and science education -- a one-year increase of 28 percent.

Today, I salute every one of you who has taken the time to share your wisdom in the classroom. I mentioned earlier we have five Nobel laureates in our midst today. Let me recognize another medal-winner for a singular distinction: Elvin Kabat, who's had the satisfaction of seeing one of his students go on to win a Nobel. //

We must preserve the vital connection between teaching and research. / That's the idea behind the Commerce Department's Technology Heroes program -- to turn Medal of Technology winners into role models for our children. / **And that's why, today, I am pleased to announce the establishment of the Presidential**

Faculty Fellows program -- to provide 5-year grants totaling $500,000 to as many as 30 young faculty members each year. These grants will support young scholars in their path-breaking work in science and technology -- and their teaching in the classroom. / Perhaps years from now, some of those Presidential Faculty Fellows will have their own day here in the Rose Garden. //

In honoring each of you, this Nation honors the boundless horizons of the human mind -- the soaring spirit of inquiry -- the special genius of the architects who fashion today's fantastic idea into tomorrow's usable tools. Your work stands as its own reward -- so let me simply add your nation's thanks. //

Once again, welcome to the White House, and congratulations on your well-earned honors. // Now, with the help of Dr. Massey, Secretary Mosbacher and Dr. Bromley, we will present the awards.

# # #

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

DATE: Sept. 13, 1991

TO: Dan McGroarty

ADDRESS:

TELEPHONE NUMBER:

FAX NUMBER: 6218

FROM: Steve Olson

2734

TELEPHONE NUMBER: 456-~~7126~~

FAX NUMBER: (202)395-3261

NUMBER OF PAGES, INCLUDING COVER SHEET 3

Dan,
Here are a couple of sentences. Despite the wording of the DoEd announcement, I'm sure these standards are just for science, not mathematics.
If you do make a decision on this this evening, could you call Ken Yale at 6272 (beeper: 6661-4246-456-6272, or at least that's what I'm told). Thanks for your patience.
Steve

we'll ask to provide solutions to the challenges of a new century, answers to questions that haven't yet been asked. /

Unless we act immediately, the next generation may not be equipped to follow in your footsteps. / All of you know our National Education Goals, and the strategy I call America 2000 -- our challenge to everyone with a stake in our schools to literally re-invent American education. / Well right now, in some studies of math and science aptitude, U.S. students rank dead last among the industrialized nations. That one statistic alone should shake us out of our complacency -- and show us the scope of the challenge we face. //

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Possible Insert

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Suggested Insert for Page 4 of speech:

The Education Department is also announcing today a grant to the National Research Council to develop new standards and assessments in science education. If we are to meet the test of worldwide competition, we must define what students need to know and then measure whether they know it.

NAT'L SCIENCE AND TECHNOLOGY AWARDS \ SEPT. 16, 1991
THE ROSE GARDEN \ 10:30 A.M.

LET ME WELCOME THE MANY DIGNITARIES HERE TODAY: SECRETARIES BOB MOSBACHER, MANUEL LUJAN AND LAMAR ALEXANDER; MY SCIENCE ADVISOR, DR. ALLAN BROMLEY; DEPUTY SECRETARIES HENSON MOORE OF ENERGY AND ROCK SCHNABEL [SHNAH-BLE] OF COMMERCE; WALTER MASSEY, DIRECTOR OF THE NATIONAL SCIENCE FOUNDATION. FINALLY, OUR HONOREES, AND THEIR FRIENDS AND FAMILIES: IT'S MY PLEASURE TO WELCOME ALL OF YOU TO THE ROSE GARDEN. //

WITH US TODAY ARE FIVE NOBEL LAUREATES; LEADING ENGINEERS OF THE INFORMATION AGE; AUTHORS OF SOME OF THIS CENTURY'S WORLD-CHANGING DISCOVERIES AND INVENTIONS -- MEN AND WOMEN WHOSE QUANTUM LEAPS OF LEARNING COMPRESS GENERATIONS OF KNOWLEDGE WITHIN A SINGLE LIFETIME OF ACHIEVEMENT. // FROM THE FIRST MOMENTS OF CREATION -- TO THE FRONTIERS OF THE SOLAR SYSTEM AND, NOW WITH VOYAGER, BEYOND: YOUR KNOWLEDGE SPANS THE BROAD CANVAS OF HUMAN ENDEAVOR. //

SOME OF YOU ARE NOT ONLY EXPERTS IN YOUR FIELD -- YOU INVENTED YOUR FIELD. YOUR QUEST AND QUESTIONS PRODUCED NEW DISCIPLINES, NEW KNOWLEDGE -- NEW WAYS OF LOOKING AT OUR WORLD.

TODAY, YOUR NATION RECOGNIZES YOUR MONUMENTAL ACCOMPLISHMENTS -- HONORS THE DIFFERENCES YOU HAVE MADE: ADVANCING HUMAN UNDERSTANDING, IMPROVING THE HUMAN CONDITION, HELPING MANKIND CONQUER IGNORANCE AND ILLNESS, HELPING THIS NATION COMPETE AND PROSPER. //

TODAY'S AWARD-WINNERS RANGE IN AGE FROM THE PEGASUS TEAM --A GROUP OF PRECOCIOUS 40-SOMETHING SCIENTISTS AND ONE 37 YEAR-OLD WHO DESIGNED AND BUILT THE WORLD'S FIRST PRIVATE SPACE ROCKET -- TO ADMIRAL GRACE HOPPER, BORN IN 1906, WHO PIONEERED THE REVOLUTION THAT PUT PERSONAL COMPUTERS ON THE DESKS OF MILLIONS OF AMERICANS -- [[AND DRAGGED EVEN THIS PRESIDENT INTO THE COMPUTER AGE.

IT'S BEEN ALMOST SIX MONTHS SINCE MY FIRST COMPUTER LESSON, AND I'M MAKING PROGRESS: I MAKE THE SAME MISTAKES -- BUT FIVE TIMES FASTER.]]

THE MEN AND WOMEN WE HONOR EXEMPLIFY NOT SIMPLY THE LIFE OF THE MIND -- BUT THE SPIRIT OF ADVENTURE AND RISK THAT ACCOMPANIES THE QUEST FOR ADVANCEMENT. /

TAKE STEPHEN BECHTEL, WHOSE VISION HELPED A CITY SPRING FROM THE SAUDI DESERT, HELPED TURN THE ARCTIC WATERS OF JAMES BAY INTO A SOURCE OF ENERGY FOR MILLIONS OF NORTH AMERICANS -- AND WHO'S NOW HELPING KUWAIT RISE UP FROM THE ASHES OF WAR. / CONSIDER COLONEL JOHN PAUL STAPP, EXPERT ON THE HUMAN IMPACT OF G-FORCE STRESS. WHEN HIS EXPERIMENTS BECAME TOO DANGEROUS TO IMPOSE ON OTHERS, COLONEL STAPP BECAME HIS OWN SUBJECT. AS AN OLD NAVAL AVIATOR, I CAN HARDLY BELIEVE HE'S WITHSTOOD 40-G'S:

THAT'S THE SAME AS GOING FROM 632 MILES PER HOUR TO A DEAD STOP IN 1.4 SECONDS. / COLONEL STAPP PUT HIMSELF ON THE LINE, AND MADE FLYING SAFER FOR EVERYONE FROM PASSENGERS ON COMMUTER SHUTTLES -- TO THE ASTRONAUTS / NOW ORBITING EARTH ON THE SHUTTLE DISCOVERY. //

FROM THE WORK OF A SINGLE INDIVIDUAL COME BENEFITS THAT CAN BANISH SUFFERING -- AND PROLONG LIFE -- FOR MANY MILLIONS OF PEOPLE. CONSIDER THE CAREER OF GERTRUDE ELION, NOBEL PRIZE WINNING BIOCHEMIST.

HER LIFE'S WORK SPANS THE QUESTS TO DEFEAT LEUKEMIA AND MALARIA -- TO TODAY'S BATTLE AGAINST AIDS AND OTHER IMMUNE SYSTEM DISORDERS. //

TOGETHER, YOUR EFFORTS TRANSFORMED OUR WORLD. YET AS A NATION, OUR HONOR FOR ALL YOU'VE DONE FALLS SHORT IF WE FAIL TO SUSTAIN YOUR FORWARD MARCH. / THIS ADMINISTRATION HAS PROPOSED WHAT PROGRESS DEMANDS:

RECORD FUNDING LEVELS FOR RESEARCH AND DEVELOPMENT -- WITH FUNDS CHANNELED TO THE INDIVIDUAL INVESTIGATOR AND SMALL RESEARCH TEAMS THAT SO OFTEN REDEFINE THE STATE-OF-THE-ART. TO ADVANCE TECHNOLOGY, WE'VE FOCUSED FUNDS ON THE AREAS OF ENERGY AND AERONAUTICS, BIOTECHNOLOGY AND ADVANCED MATERIALS, HIGH PERFORMANCE COMPUTING AND COMMUNICATIONS.

TO ADVANCE SCIENCE AND ENGINEERING RESEARCH, WE'VE URGED CONGRESS TO APPROVE AN 18 PERCENT INCREASE IN FUNDING FOR THE NATIONAL SCIENCE FOUNDATION -- KEEPING US ON TRACK WITH OUR COMMITMENT TO <u>DOUBLE</u> SPENDING ON THAT VITAL RESEARCH ARM BY THE YEAR 1994. // OUR COMMITMENT TO SCIENCE AND TECHNOLOGY PROVES BEYOND DOUBT <u>WE WILL NOT SHORTCHANGE THE FUTURE</u>. //

IN THE WORDS OF ASTRONOMER EDWIN POWELL HUBBLE: "EQUIPPED WITH HIS FIVE SENSES, MAN EXPLORES THE UNIVERSE AROUND HIM, AND CALLS THE ADVENTURE SCIENCE." SCIENCE AND TECHNOLOGY HOLD OPEN THE HOPE OF INFINITE / POSSIBILITY -- OF ANSWERS THAT ELUDED EINSTEIN, OF A NEW WORLD FREE FROM FEAR AND WANT. THAT SAME SHINING FUTURE -- THAT NEW WORLD OF POSSIBILITY -- EXISTS WITHIN EVERY CHILD. //

IN THE END, THE PROGRESS OF ENLIGHTENMENT COMES DOWN TO EDUCATION: WHAT ARE WE DOING TO CULTIVATE THE CHILDREN SITTING TODAY IN CLASSROOMS AROUND THE COUNTRY -- THE GENERATION WE'LL ASK TO PROVIDE SOLUTIONS TO THE CHALLENGES OF A NEW CENTURY, ANSWERS TO QUESTIONS THAT HAVEN'T YET BEEN ASKED. /

UNLESS WE ACT IMMEDIATELY, THE NEXT GENERATION MAY NOT BE EQUIPPED TO FOLLOW IN YOUR FOOTSTEPS. /

ALL OF YOU KNOW OUR NATIONAL EDUCATION GOALS, AND THE STRATEGY I CALL AMERICA 2000 -- OUR CHALLENGE TO EVERYONE WITH A STAKE IN OUR SCHOOLS TO LITERALLY RE-INVENT AMERICAN EDUCATION. / WELL RIGHT NOW, IN SOME/ STUDIES OF MATH AND SCIENCE APTITUDE, U.S. STUDENTS RANK DEAD LAST AMONG THE INDUSTRIALIZED NATIONS. THAT ONE STATISTIC ALONE SHOULD SHAKE US OUT OF OUR COMPLACENCY -- AND SHOW US THE SCOPE OF THE CHALLENGE WE FACE. //

IF WE'RE GOING TO BE FIRST IN THE WORLD IN MATH AND SCIENCE BY THE YEAR 2000, THERE'S NOT A MOMENT TO WASTE. BECAUSE WE'RE SERIOUS, NEXT YEAR'S BUDGET TARGETS $661 MILLION FOR PRE-COLLEGE MATH AND SCIENCE EDUCATION -- A ONE-YEAR INCREASE OF 28 PERCENT.

TODAY, I SALUTE EVERY ONE OF YOU WHO HAS TAKEN THE TIME TO SHARE YOUR WISDOM IN THE CLASSROOM. I MENTIONED EARLIER WE HAVE FIVE NOBEL LAUREATES IN OUR MIDST TODAY.

LET ME RECOGNIZE ANOTHER MEDAL-WINNER FOR A SINGULAR DISTINCTION: ELVIN KABAT, WHO'S HAD THE SATISFACTION OF SEEING ONE OF HIS STUDENTS GO ON TO WIN A NOBEL. //

WE MUST PRESERVE THE VITAL CONNECTION BETWEEN TEACHING AND RESEARCH. / THAT'S THE IDEA BEHIND THE COMMERCE DEPARTMENT'S TECHNOLOGY HEROES PROGRAM -- TO TURN MEDAL OF TECHNOLOGY WINNERS INTO ROLE MODELS FOR OUR CHILDREN. /

AND THAT'S WHY, TODAY, I AM PLEASED TO ANNOUNCE THE ESTABLISHMENT OF THE PRESIDENTIAL FACULTY FELLOWS PROGRAM -- TO PROVIDE 5-YEAR GRANTS TOTALING $500,000 TO AS MANY AS 30 YOUNG FACULTY MEMBERS EACH YEAR. THESE GRANTS WILL SUPPORT YOUNG SCHOLARS IN THEIR PATH-BREAKING WORK IN SCIENCE AND TECHNOLOGY -- AND THEIR TEACHING IN THE CLASSROOM. / PERHAPS YEARS FROM NOW, SOME OF THOSE PRESIDENTIAL FACULTY FELLOWS WILL HAVE THEIR OWN DAY HERE IN THE ROSE GARDEN. //

IN HONORING EACH OF YOU, THIS NATION HONORS THE BOUNDLESS HORIZONS OF THE HUMAN MIND -- THE SOARING SPIRIT OF INQUIRY -- THE SPECIAL GENIUS OF THE ARCHITECTS WHO FASHION TODAY'S FANTASTIC IDEA INTO TOMORROW'S USABLE TOOLS. YOUR WORK STANDS AS ITS OWN REWARD -- SO LET ME SIMPLY ADD YOUR NATION'S THANKS. //

ONCE AGAIN, WELCOME TO THE WHITE HOUSE, AND CONGRATULATIONS ON YOUR WELL-EARNED HONORS. // NOW, WITH THE HELP OF DR. MASSEY, SECRETARY MOSBACHER AND DR. BROMLEY, WE WILL PRESENT THE AWARDS.

# # #

THE PRESIDENT HAS SEEN
9/13/91

THE WHITE HOUSE

WASHINGTON

September 12, 1991

91 SEP 13 P12:14

OK

MEMORANDUM FOR THE PRESIDENT

THROUGH: DAVID DEMAREST
TONY SNOW TS

FROM: DAN McGROARTY DMcG

SUBJECT: NATIONAL MEDAL OF SCIENCE AND TECHNOLOGY CEREMONY

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leukemia and malaria -- to today's battle against AIDS and other immune system disorders. //

Together, your efforts transformed our world. Yet as a Nation, our honor for all you've done falls short if we fail to sustain your forward march. / This Administration has proposed what progress demands: record funding levels for research and development -- with funds channeled to the individual investigator and small research teams that so often redefine the state-of-the-art. To advance technology, we've focused funds on the areas of energy and aeronautics, biotechnology and advanced materials, high performance computing and communications. To advance science and engineering research, we've urged Congress to approve an 18 percent increase in funding for the National Science Foundation -- keeping us on track with our commitment to double spending on that vital research arm by the year 1994. // Our commitment to science and technology proves beyond doubt we will not shortchange the future. //

In the words of astronomer Edwin Powell Hubble: "Equipped with his five senses, man explores the universe around him, and calls the adventure Science." Science and technology hold open the hope of infinite possibility -- of answers that eluded Einstein, of a new world free from fear and want. That same shining future -- that new world of possibility -- exists within every child. // In the end, the progress of enlightenment comes down to education: what are we doing to cultivate the children sitting today in classrooms around the country -- the generation

we'll ask to provide solutions to the challenges of a new century, answers to questions that haven't yet been asked. /

Unless we act immediately, the next generation may not be equipped to follow in your footsteps. / All of you know our National Education Goals, and the strategy I call America 2000 -- our challenge to everyone with a stake in our schools to literally re-invent American education. / Well right now, in some studies of math and science aptitude, U.S. students rank dead last among the industrialized nations. That one statistic alone should shake us out of our complacency -- and show us the scope of the challenge we face. //

If we're going to be first in the world in math and science by the year 2000, there's not a moment to waste. Because we're serious, next year's budget targets $661 million for pre-college math and science education -- a one-year increase of 28 percent.

Today, I salute every one of you who has taken the time to share your wisdom in the classroom. I mentioned earlier we have five Nobel laureates in our midst today. Let me recognize another medal-winner for a singular distinction: Elvin Kabat, who's had the satisfaction of seeing one of his students go on to win a Nobel. //

We must preserve the vital connection between teaching and research. / That's the idea behind the Commerce Department's Technology Heroes program -- to turn Medal of Technology winners into role models for our children. / **And that's why, today, I am pleased to announce the establishment of the Presidential**

Faculty Fellows program -- to provide 5-year grants totaling $500,000 to as many as 30 young faculty members each year. These grants will support young scholars in their path-breaking work in science and technology -- and their teaching in the classroom. / Perhaps years from now, some of those Presidential Faculty Fellows will have their own day here in the Rose Garden. //

In honoring each of you, this Nation honors the boundless horizons of the human mind -- the soaring spirit of inquiry -- the special genius of the architects who fashion today's fantastic idea into tomorrow's usable tools. Your work stands as its own reward -- so let me simply add your nation's thanks. //

Once again, welcome to the White House, and congratulations on your well-earned honors. // Now, with the help of Dr. Massey, Secretary Mosbacher and Dr. Bromley, we will present the awards.

# # #

THE WHITE HOUSE

WASHINGTON

91 SEP 13 P6:07

September 12, 1991

MEMORANDUM FOR TONY SNOW

FROM: ROGER B. PORTER RBP

SUBJECT: Presidential Remarks: National Science and Technology Awards

We have reviewed the attached presidential remarks and have noted several changes on the draft.

Please let us know if you have any questions or if we can help in any other way.

cc: PHILLIP D. BRADY

Document No. 269334ss

WHITE HOUSE STAFFING MEMORANDUM

DATE: 9/11/91 ACTION/CONCURRENCE/COMMENT DUE BY: THURS. 9/12/91 COB

SUBJECT: PRESIDENTIAL REMARKS: NATIONAL SCIENCE AND TECHNOLOGY AWARDS
THE ROSE GARDEN
SEPTEMBER 16, 1991

	ACTION	FYI		ACTION	FYI
VICE PRESIDENT	☐	☑	MCCLURE	☑	☐
SUNUNU	☐	☐	PETERSMEYER	☐	☐
SCOWCROFT	☑	☐	PORTER	☑	☐
DARMAN	☑	☐	ROGICH	☑	☐
BRADY	☐	☑	SMITH	☑	☐
BROMLEY	☑	☐	UNTERMEYER	☐	☐
CARD	☐	☑	SNOW	☐	☑
DEMAREST	☑	☐	_____	☐	☐
FITZWATER	☐	☑	_____	☐	☐
GRAY	☑	☐	_____	☐	☐
HOLIDAY	☑	☐	_____	☐	☐

REMARKS:

Please forward your comments directly to Tony Snow, Rm. 122, x2930, no later than COB, THURSDAY, SEPTEMBER 12, with a copy to this office. Thank you.

RESPONSE:

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

McGroarty/Bunton
September 11, 1991
3:00 pm
[AWARDS]

91 SEP 11 P4:05

PRESIDENTIAL REMARKS: NATIONAL SCIENCE AND TECHNOLOGY AWARDS
SEPTEMBER 16, 1991
THE ROSE GARDEN
10:30 A.M.

It's my pleasure to welcome all of you to the Rose Garden. [Introductory acknowledgements: Dr. Bromley. Secretary Mosbacher. Dr. William Massey, Director of NSF.]

With us today are five Nobel laureates; leading engineers of the information age; ~~authors of~~ INDIVIDUALS RESPONSIBLE FOR some of this century's world-changing discoveries and inventions -- men and women who compress quantum leaps of learning within a single lifetime of achievement. // From the first moments of creation -- to the frontiers of the universe and, now with Voyager, beyond: The scope of your knowledge spans the canvas of human endeavor. //

Some of you are not only <u>experts</u> in your field -- you are the <u>inventors</u> of your field, the ones whose quest and questions HAVE EXPANDED THE SCOPE OF OUR KNOWLEDGE, ~~turned to knowledge.~~ //

Today, your nation recognizes ~~your~~ THE monumental accomplishments AND -- honors the difference you have made: Advancing human understanding, improving the human condition, helping mankind conquer ignorance and illness, helping this Nation compete and prosper. //

Today's award-winners range in age from <u>the Pegasus Team</u> --- a group of precocious 40-something scientists and one 37 year-old who designed and built the world's first private space rocket -- to <u>Admiral Grace Hopper</u>, born in 1906, who pioneered the

revolution that put personal computers on the desks of millions of Americans -- [[and dragged even this President into the computer age. It's been almost six months since my first computer lesson, and I'm making progress: I make the same mistakes -- but five times faster.]]

The men and women we honor exemplify ~~not simply~~ the life of the mind -- ~~but~~ AND the spirit of adventure and risk that accompanies the quest for advancement. / Take Stephen Bechtel, whose vision helped a city spring from the Saudi desert, helped turn the arctic waters of James Bay into a source of energy for millions of North Americans -- and who's now helping Kuwait rise up from the ashes of war. / Consider Colonel John Paul Stapp, expert on the human impact of G-force stress. When his experiments became too dangerous to impose on others, Colonel Stapp became his own subject. As an old naval aviator, I can hardly believe he's withstood 26-G's: that's the same as going from 632 miles per hour to a dead stop in 1.4 seconds. / Colonel Stapp put himself on the line -- and made flying safer for everyone from passengers on commuter shuttles to astronauts on our space shuttle. //

Together, your efforts transformed our world. Yet ~~as a Nation, our honor for all you've done falls short if we fail to sustain your forward march.~~ WE MUST WORK TO SUSTAIN THE MOMENTUM ESTABLISHED BY YOUR REMARKABLE DISCOVERIES. / This Administration has proposed what progress demands: record levels for research and development -- with funds channeled to the individual investigator and small research teams that so often redefine the state-of-the-art. To advance technology, we've focused funds on

the areas of energy and aeronautics, biotechnology and advanced materials, high performance computing and communications. To advance science, we've urged Congress to approve an 18 percent increase in funding for the National Science Foundation -- ~~keeping us on track~~ CONTINUING THE PROGRESS ALREADY MADE on our 7-year commitment to double spending on that vital research arm by the year 1994. // Our commitment to science and technology proves beyond doubt we will not shortchange the future. //

In the words of astronomer Edwin Powell Hubble: "Equipped with his five senses, man explores the universe around him, and calls the adventure Science." Science and technology hold open the hope of infinite possibility -- of answers that eluded (PAST GENERATIONS) Einstein, of a new world free from fear and want. That same shining future -- that new world of possibility -- exists within every child. In the end, the progress of enlightenment comes down to education: what are we doing to cultivate the children sitting today in classrooms around the country -- the generation we'll ask to provide solutions to the challenges of a new century, answers to questions that haven't yet been asked. /

Unless we act immediately, the next generation may not be equipped to follow in your footsteps. Right now, in some studies of math and science aptitude, U.S. students rank dead last among the industrialized nations. That one statistic alone should shake us out of our complacency -- and show us the scope of the challenge we face. //

All of you know our ambitious goal to be first in the world in math and science by the year 2000. Because there's no time to waste, next year's budget targets $661 million for pre-college math and science education -- a one-year increase of 28 percent.

Today, I salute every one of you who has taken the time to share your wisdom in the classroom. I mentioned earlier we have five Nobel laureates in our midst today. Let me recognize another medal-winner for a singular distinction: Elvin Kabat, who's had the satisfaction of seeing one of his students go on to win a Nobel. //

We must preserve the vital connection between teaching and research. That's the idea behind the Commerce Department's Technology Heroes program -- to turn Medal of Technology winners into role models for our children. That's why I am announcing today the establishment of the Presidential Faculty Fellows program, to provide grants totaling $500,000 to up to 30 young faculty members. This money will support their path-breaking work in science and technology. Perhaps years from now, some of those Faculty Fellows will have their own day in the Rose Garden. //

In honoring each of you, this Nation honors the boundless horizons of the human mind -- the soaring spirit of inquiry -- the special genius of the architects who fashion today's fantastic idea into tomorrow's usable tools. Your work stands as its own reward -- so let me simply add your nation's thanks. //

Once again, welcome to the White House, and congratulations on your well-earned honors. {Now, Dr. Bromley and Secretary Mosbacher will present the awards.}

# # #

THE WHITE HOUSE

WASHINGTON

September 12, 1991

MEMORANDUM FOR THE PRESIDENT

THROUGH: DAVID DEMAREST
TONY SNOW TS

FROM: DAN McGROARTY DMcG

SUBJECT: NATIONAL MEDAL OF SCIENCE AND TECHNOLOGY CEREMONY

On Monday, September 16, you will deliver remarks to an audience of approximately 210 at the National Medal of Science and Technology ceremony in the Rose Garden. Secretary Manuel Lujan and Deputy Secretary Henson Moore are expected to attend. The audience will consist primarily of recipients and their family members. After your remarks, Dr. Walter Massey, Director of the National Science Foundation, will read the citations. You will join Secretary Mosbacher and Dr. Bromley in presenting the medals.

Your remarks (approximately 8 minutes/on cards) highlight the recipients and their achievements. Then they focus on federal funding for science, technology, and research and development; and the importance of math and science education.

McGroarty/Bunton
September 13, 1991
11:30 am
[AWARDS]

PRESIDENTIAL REMARKS: NATIONAL SCIENCE AND TECHNOLOGY AWARDS
SEPTEMBER 16, 1991
THE ROSE GARDEN
10:30 A.M.

It's my pleasure to welcome all of you to the Rose Garden. [Introductory acknowledgements: Secretaries Mosbacher and Lujan. Dr. Bromley. Henson Moore. Dr. Walter Massey, Director of NSF.]

With us today are five Nobel laureates; leading engineers of the information age; authors of some of this century's world-changing discoveries and inventions -- men and women whose quantum leaps of learning compress generations of knowledge within a single lifetime of achievement. // From the first moments of creation -- to the frontiers of the solar system and, now with Voyager, beyond: your knowledge spans the broad canvas of human endeavor. //

Some of you are not only experts in your field -- you invented your field. Your quest and questions produced new disciplines, new knowledge -- new ways of looking at our world.

Today, your nation recognizes your monumental accomplishments -- honors the differences you have made: Advancing human understanding, improving the human condition, helping mankind conquer ignorance and illness, helping this Nation compete and prosper. //

Today's award-winners range in age from the Pegasus Team -- a group of precocious 40-something scientists and one 37 year-old who designed and built the world's first private space rocket

-- to Admiral Grace Hopper, born in 1906, who pioneered the revolution that put personal computers on the desks of millions of Americans -- [[and dragged even this President into the computer age. It's been almost six months since my first computer lesson, and I'm making progress: I make the same mistakes -- but five times faster.]]

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From the work of a single individual come benefits that can banish suffering -- and prolong life -- for many millions of people. Consider the career of Gertrude Elion, Nobel Prize winning biochemist. Her life's work spans the quests to defeat

leukemia and malaria -- to today's battle against AIDS and other immune system disorders. //

Together, your efforts transformed our world. Yet as a Nation, our honor for all you've done falls short if we fail to sustain your forward march. / This Administration has proposed what progress demands: record funding levels for research and development -- with funds channeled to the individual investigator and small research teams that so often redefine the state-of-the-art. To advance technology, we've focused funds on the areas of energy and aeronautics, biotechnology and advanced materials, high performance computing and communications. To advance science and engineering research, we've urged Congress to approve an 18 percent increase in funding for the National Science Foundation -- keeping us on track with our commitment to double spending on that vital research arm by the year 1994. // Our commitment to science and technology proves beyond doubt we will not shortchange the future. //

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